

Panasonic

PT Programming Manual

Hybrid IP-PBX

Model No. **KX-TDA30/KX-TDA100**
KX-TDA200/KX-TDA600



Thank you for purchasing a Panasonic Hybrid IP-PBX.
Please read this manual carefully before using this product and save this manual for future use.

KX-TDA30: PSMPR Software File Version 5.0000 or later
KX-TDA100/KX-TDA200: PMPR Software File Version 5.0000 or later
KX-TDA600: PLMPR Software File Version 5.0000 or later

Introduction

About this Programming Manual

The PT Programming Manual is designed to serve as a reference to programming the Panasonic Hybrid IP-PBX using a Panasonic proprietary telephone (PT) with display.

The PT Programming Manual is divided into the following sections:

Section 1, Overview

Provides an overview of programming the PBX.

Section 2, PT Programming

Serves as reference operating instructions when using a display PT to program the PBX.

Section 3, Appendix

Provides a list of all related PT programming items for each feature as Feature Programming References.

References Found in the PT Programming Manual

PT Programming Manual References

Related sections of the PT Programming Manual are listed for your reference.

Feature Guide References

The Feature Guide explains what the PBX can do, as well as how to obtain the most of its many features and facilities. Sections from the Feature Guide are listed throughout the PT Programming Manual for your reference.

Links to Other Pages and Manuals

If you are viewing this manual with a PC, certain items are linked to different sections of the PT Programming Manual and other Hybrid IP-PBX manuals. Click on a link to jump to that section.

Linked items include:

- PT Programming Manual References
- Feature Guide References

Safety Notices

Please observe the safety notices in this manual in order to avoid danger to users or other people, and prevent damage to property.

The notices are classified as follows, according to the severity of injury or damage:

<u>WARNING</u>	This notice means that misuse could result in death or serious injury.
<u>CAUTION</u>	This notice means that misuse could result in injury or damage to property.

WARNING

Unplug the PBX from the AC outlet if it emits smoke, an abnormal smell or makes unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped and contact an authorised Panasonic Factory Service Centre.

NOTES

- The contents of this manual apply to PBXs with a certain software version, as indicated on the cover of this manual. To confirm the software version of your PBX, see **[190] Main Processing (MPR) Software Version Reference**.
- Some optional service cards, PTs, and features are not available in some areas. Additionally, some optional service cards and features are not available for some PBX models. Please consult your certified Panasonic dealer for more information.
- Product specifications are subject to change without notice.
- Throughout this manual, PT displays and other displays are shown in English. Other languages may be available, depending on the country or area.
- In this manual, model number suffixes (e.g., KX-TDA100**NE**) are omitted unless necessary.



The KX-TDA30E, KX-TDA30NE, KX-TDA30GR, and KX-TDA30CE are designed to interwork with the:

- Analogue Public Switched Telephone Network (PSTN) of European countries
- Pan-European Integrated Services Digital Network (ISDN) using ISDN basic rate access

The KX-TDA100E/KX-TDA200E, KX-TDA100NE/KX-TDA200NE, KX-TDA100GR/KX-TDA200GR, and KX-TDA100CE/KX-TDA200CE are designed to interwork with the:

- Analogue Public Switched Telephone Network (PSTN) of European countries
- Pan-European Integrated Services Digital Network (ISDN) using ISDN basic rate access
- Pan-European Integrated Services Digital Network (ISDN) using ISDN primary rate access
- ONP 2048 kbit/s digital structured leased lines (D2048S)

The KX-TDA600E, KX-TDA600NE, KX-TDA600GR, and KX-TDA600CE are designed to interwork with the:

- Analogue Public Switched Telephone Network (PSTN) of European countries
- Pan-European Integrated Services Digital Network (ISDN) using ISDN basic rate access
- Pan-European Integrated Services Digital Network (ISDN) using ISDN primary rate access
- ONP 2048 kbit/s digital structured leased lines (D2048S)

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Table of Contents

1	Overview	9
1.1	Introduction	10
1.1.1	Introduction	10
1.1.2	Password Security	11
1.1.3	Entering Characters	12
2	PT Programming	17
2.1	PT Programming	18
2.1.1	Programming Instructions	18
2.1.2	Maximum Values	21
2.1.3	Basic Programming	24
	[000] Date & Time	24
	[001] System Speed Dialling Number	24
	[002] System Speed Dialling Name	24
	[003] Extension Number	24
	[004] Extension Name	25
	[005] Extension Personal Identification Number (PIN)	25
	[006] Operator Assignment	25
	[007] DSS Console Paired Telephone	25
	[008] Absent Message	26
	[010] Charge Margin	26
	[011] Charge Tax	26
	[012] Charge Rate per Unit	26
2.1.4	System Management Programming	27
	[100] Flexible Numbering	27
	[101] Time Service Switching Mode	27
	[102] Time Service Starting Time	27
	[103] Idle Line Access (Local Access)	28
	[110] System Password for Administrator—for PT Programming	28
	[111] System Password for User—for PT Programming	28
	[112] Manager Password	28
	[120] Verification Code	28
	[121] Verification Code Name	29
	[122] Verification Code Personal Identification Number (PIN)	29
	[123] Verification Code COS Number	29
	[130] Decimal Point Position for Currency	29
	[131] Currency	29
	[190] Main Processing (MPR) Software Version Reference	30
2.1.5	Timer Programming	31
	[200] Hold Recall Time	31
	[201] Transfer Recall Time	31
	[203] Intercept Time	31
	[204] Hot Line Waiting Time	31
	[205] Automatic Redial Repeat Times	31
	[206] Automatic Redial Interval	31
	[207] Door Unlock Time	32
	[208] Call Duration Count Starting Time for LCOT	32
	[209] DISA Delayed Answer Time	32
	[210] DISA Trunk-to-Trunk Call Prolong Time	32
	[211] DISA Intercept Time	32
2.1.6	TRS/Barring/ARS Programming	33
	[300] TRS/Barring Override by System Speed Dialling	33

	[301] TRS/Barring Denied Code	33
	[302] TRS/Barring Exception Code	33
	[303] Special Carrier Access Code	33
	[304] Emergency Number	33
	[320] ARS Mode	33
	[321] ARS Leading Number	34
	[322] ARS Routing Plan Table Number	34
	[325] ARS Exception Number	34
	[330] ARS Routing Plan Time Table	34
	[331–346] ARS Routing Plan Table (1–16) (KX-TDA30/KX-TDA100/KX-TDA200 only)	35
	[347] ARS Routing Plan Table (1–48) (KX-TDA600 only)	35
	[350] ARS Carrier Name	35
	[351] ARS Trunk Group for Carrier Access	35
	[352] ARS Removed Number of Digits for Carrier Access	35
	[353] ARS Carrier Access Code	36
2.1.7	Trunk Programming	37
	[400] LCOT/BRI Trunk Connection	37
	[401] LCOT/BRI Trunk Name	37
	[402] LCOT/BRI Trunk Group Number	37
	[409] LCOT/BRI Trunk Number Reference	37
	[410] LCOT Dialling Mode	37
	[411] LCOT Pulse Rate	37
	[412] LCOT DTMF Minimum Duration	38
	[413] LCOT CPC Signal Detection Time—Outgoing	38
	[414] LCOT CPC Signal Detection Time—Incoming	38
	[415] LCOT Reverse Circuit	38
	[416] LCOT Pause Time	38
	[417] LCOT Flash/Recall Time	38
	[418] LCOT Disconnect Time	39
	[420] BRI Network Type	39
	[421] BRI DIL/DDI/MSN Selection	39
	[422] BRI Subscriber Number	39
	[424] BRI Layer 1 Active Mode	39
	[425] BRI Layer 2 Active Mode	39
	[426] BRI Configuration	40
	[427] BRI TEI Mode	40
	[450] DIL 1:1 Destination	40
	[451] DID Number	40
	[452] DID Name	40
	[453] DID Destination	41
	[471] Host PBX Access Code	41
	[472] Extension-to-Trunk Call Duration	41
	[473] Trunk-to-Trunk Call Duration	41
	[475] DISA Silence Detection	41
	[476] DISA Continuous Signal Detection	42
	[477] DISA Cyclic Signal Detection	42
	[490] Caller ID Signal Type	42
	[491] Pay Tone Signal Type (KX-TDA100/KX-TDA200/KX-TDA600 only)	42
2.1.8	COS Programming	43
	[500] Trunk Group Number	43
	[501] TRS/Barring Level	43
	[502] Trunk Call Duration Limitation	43
	[503] Call Transfer to Trunk	43
	[504] Call Forwarding to Trunk	43

Table of Contents

	[505] Executive Busy Override	44
	[506] Executive Busy Override Deny	44
	[507] DND Override	44
	[508] Account Code Mode	44
	[509] TRS/Barring Level for System Speed Dialling	44
	[510] TRS/Barring Level for Extension Dial Lock	44
	[511] Manager Assignment	44
	[512] Permission for Door Open Access	45
	[514] Time Service Manual Switching	45
	[515] Wireless XDP Parallel Mode for Paired Telephone	45
	[516] Programming Mode Limitation	45
2.1.9	Extension Programming	46
	[600] EXtra Device Port (XDP) Mode	46
	[601] Terminal Device Assignment	46
	[602] Class of Service	46
	[603] Extension User Group	46
	[604] Extension Intercept Destination	47
	[605] Call Forwarding—No Answer Time	47
	[606] CLIP/COLP Number	47
	[620] Incoming Call Distribution Group Member	47
	[621] Incoming Call Distribution Group Delayed Ringing	47
	[622] Incoming Call Distribution Group Floating Extension Number	48
	[623] Incoming Call Distribution Group Name	48
	[624] Incoming Call Distribution Group Distribution Method	48
	[625] Destination for Overflow Time Expiration	48
	[626] Overflow Time	48
	[627] Destination When All Busy	49
	[628] Queuing Call Capacity	49
	[629] Queuing Hurry-up Level	49
	[630] Queuing Time Table	49
	[631] Sequences in Queuing Time Table	49
	[632] Maximum Number of Agents	50
	[640] Extension User Groups of a Paging Group	50
	[641] External Pagers of a Paging Group	50
	[650] Extension User Groups of a Pickup Group	50
	[660] VM Group Floating Extension Number	51
	[680] Idle Extension Hunting Type	51
	[681] Idle Extension Hunting Group Member	51
	[690] PS Registration	51
	[691] PS Termination	52
	[692] Personal Identification Number (PIN) for PS Registration	52
	[699] CS Status Reference	52
2.1.10	Resource/Interface Programming	53
	[700] External Pager Floating Extension Number	53
	[710] Music Source Selection for BGM (with the KX-TDA30)/BGM2 (with the KX-TDA100/KX-TDA200/KX-TDA600)	53
	[711] Music on Hold	53
	[712] Music for Transfer	53
	[720] Doorphone Call Destination	54
	[729] Doorphone Number Reference	54
	[730] Outgoing Message (OGM) Floating Extension Number	54
	[731] Outgoing Message (OGM) Name	54
	[732] DISA Security Mode	55
2.1.11	SMDR & Maintenance Programming	56
	[800] RS-232C Parameter—New Line Code	56

	[800] RS-232C Parameter—Baud Rate	56
	[800] RS-232C Parameter—Word Length	56
	[800] RS-232C Parameter—Parity Bit	56
	[800] RS-232C Parameter—Stop Bit Length	56
	[801] External Modem Control	56
	[802] SMDR Page Length	57
	[803] SMDR Skip Perforation	57
	[804] SMDR Outgoing Call Printing	57
	[805] SMDR Incoming Call Printing	57
	[810] Remote Programming	57
	[811] Modem Floating Extension Number	57
	[812] ISDN Remote Floating Extension Number	57
2.1.12	Card Programming	58
	[900] Slot Card Type Reference	58
	[901] Slot Card Deletion	58
	[902] Slot Card Reset	58
	[910] OPB3 Option Card Type Reference (KX-TDA100/KX-TDA200/KX-TDA600 only)	58
	[911] OPB3 Option Card Deletion (KX-TDA100/KX-TDA200/KX-TDA600 only)	58
3	Appendix	59
3.1	Revision History	60
3.1.1	KX-TDA600 PLMPR Software File Version 3.1xxx	60
3.1.2	KX-TDA100/KX-TDA200 PMPR Software File Version 3.2xxx	61
3.1.3	KX-TDA100/KX-TDA200 PMPR Software File Version 5.0xxx	62
3.1.4	KX-TDA30 PSMPR Software File Version 4.0xxx	63
3.1.5	KX-TDA30 PSMPR Software File Version 5.0xxx	64
3.2	Feature Programming References	65

Section 1

Overview

This section provides an overview of programming the PBX.

1.1 Introduction

1.1.1 Introduction

These programming instructions are designed to serve as an overall system programming reference for the Panasonic Hybrid IP-PBX. Each feature in the PBX has default settings that can be changed to customise the PBX to your requirements. These settings control the functions of the PBX, and changing them is referred to as "system programming".

Only one person can perform system programming at a time. Any other users trying to enter system programming mode will be denied access.

Ways to Programme

There are two programming methods:

- **PC (Personal Computer) Programming**
All features and settings of the PBX can be programmed through PC programming with Maintenance Console. Installing and starting Maintenance Console are explained in the Installation Manual.
- **PT (Proprietary Telephone) Programming**
A subset of the features and settings of the PBX can be programmed using a PT. PT programming is described in Section 2.1 PT Programming. An extension user can perform system programming by entering three-digit programming numbers with a PT.

1.1.2 Password Security

To maintain system security, system passwords are required to access certain programming functions of the PBX. By giving different users access to different passwords, it is possible to control the amount of programming that each user is able to perform.

The following types of system passwords are available:

Password	Description	Format
System Password (PT) for User	Used to access user-level PT programming. The specific PT programming items that may be programmed at user level can be selected through system programming.	4 – 10 digits
System Password (PT) for Administrator	Used to access administrator-level PT programming. All PT programming settings are available.	

CAUTION

To the Administrator or Installer regarding the system password

1. Please provide all system passwords to the customer.
2. To avoid unauthorised access and possible abuse of the PBX, keep the passwords secret, and inform the customer of the importance of the passwords, and the possible dangers if they become known to others.
3. The PBX has default passwords preset. For security, change these passwords the first time that you programme the PBX.
4. Change the passwords periodically.
5. It is strongly recommended that passwords of 10 numbers or characters be used for maximum protection against unauthorised access. For a list of numbers and characters that can be used in system passwords, refer to Section 1.1.3 Entering Characters.

1.1.3 Entering Characters

The following characters can be used when storing a name, message, or other text entry data using a PT. The tables below show you the characters available by pushing each button a specific number of times.

Table 1 (Standard mode)

Times Buttons	1	2	3	4	5	6	7	8	9
1	!	?	"	1					
2	A	B	C	a	b	c	2		
3	D	E	F	d	e	f	3		
4	G	H	I	g	h	i	4		
5	J	K	L	j	k	l	5		
6	M	N	O	m	n	o	6		
7	P	Q	R	S	p	q	r	s	7
8	T	U	V	t	u	v	8		
9	W	X	Y	Z	w	x	y	z	9
0	(space)	.	,	'	:	;	0		
*	/	+	—	=	<	>	*		
#	\$	%	&	@	()	€	£	#

Table 1 (Standard mode for RU model)

Times Buttons	1	2	3	4	5	6	7	8	9
1	!	?	"	1					
2	A	B	C	a	b	c	2		
3	D	E	F	d	e	f	3		
4	G	H	I	g	h	i	4		
5	J	K	L	j	k	l	5		
6	M	N	O	m	n	o	6		
7	P	Q	R	S	p	q	r	s	7
8	T	U	V	t	u	v	8		
9	W	X	Y	Z	w	x	y	z	9
0	(space)	.	,	'	:	;	0		
*	/	+	—	=	<	>	*		
#	\$	%	&	@	()	■	■	#

Table 2 (Option mode)

Times Buttons	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	!	?	"	ä	ö	ü	1								
2	A	B	C	a	b	c	À	Á	Â	Ã	Ä	Å	Æ	Ç	2
3	D	E	F	d	e	f	Ð	È	É	Ê	Ë	3			
4	G	H	I	g	h	i	Ì	Í	Î	Ï	4				
5	J	K	L	j	k	l	5								
6	M	N	O	m	n	o	Ñ	Ò	Ó	Ô	Õ	Ö	Ø	Œ	6
7	P	Q	R	S	p	q	r	s	Š	ß	7				
8	T	U	V	t	u	v	Ù	Ú	Û	Ü	8				
9	W	X	Y	Z	w	x	y	z	Ý	Ž	9				
0	(space)	.	,	'	:	;	0								
*	/	+	—	=	<	>	*								
#	\$	%	&	@	()	€	£	#						

Table 2 (Option mode for CE model)

Times Buttons	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	!	?	"	ä	ö	ü	1								
2	A	B	C	a	b	c	Á	Â	Ã	Ä	Å	Ć	Ç	Č	2
3	D	E	F	d	e	f	Đ	Ð	É	Ê	Ë	ě	3		
4	G	H	I	g	h	i	Í	Î	4						
5	J	K	L	j	k	l	Ĺ	Í	5						
6	M	N	O	m	n	o	Ń	Ň	Ó	Ô	Õ	Ö	6		
7	P	Q	R	S	p	q	r	s	Ř	Ř	Š	Ś	Ş	ß	7
8	T	U	V	t	u	v	Ť	Ť	ű	Ú	Ú	Ü	8		
9	W	X	Y	Z	w	x	y	z	Ž	Ž	Ž	Ý	9		
0	(space)	.	,	'	:	;	0								
*	/	+	—	=	<	>	*								
#	\$	%	&	@	()	€	£	#						

1.1.3 Entering Characters

Table 2 (Option mode for GR model)



Times Buttons	1	2	3	4	5	6	7	8	9
1	!	?	"	1					
2	A	B	Г	2					
3	Δ	E	Z	3					
4	H	Θ	I	4					
5	K	Λ	M	5					
6	N	Ξ	O	6					
7	Π	P	Σ	7					
8	T	Υ	Φ	8					
9	X	Ψ	Ω	9					
0	(space)	.	,	'	:	;	0		
*	/	+	—	=	<	>	*		
#	\$	%	&	@	()	€	£	#

Table 2 (Option mode for RU model)



Times Buttons	1	2	3	4	5	6	7	8	9	10	11
1	A	Б	В	!	?	"	1				
2	Г	Д	Е	Ё	2						
3	Ж	З	И	Й	3						
4	К	Л	М	4							
5	Н	О	П	5							
6	Р	С	Т	6							
7	У	Ф	Х	7							
8	Ц	Ч	Ш	8							
9	Щ	Ъ	Ы	Ь	9						
0	Э	Ю	Я	(space)	.	,	'	:	;	0	
*	/	+	—	=	<	>	Г	€	I	İ	*
#	\$	%	&	@	()	€	I	Ÿ	#	

[Example of Entering Characters]

To enter "Ann":

A	n	n
2	6 (5 times)	 OR  6 (5 times)

Note

- To erase the character on the cursor, press CLEAR.
- To move the cursor to the left, press .
- To move the cursor to the right, press . When entering two or more characters that use the same button consecutively (e.g. "G" and "I"), you must press this button or the FWD/DND button after entering the first character.
- If SELECT is pressed, the characters for each button will be displayed in reverse order.
- To toggle between Table 1 and Table 2 when using the KX-NT300/KX-DT300/KX-T7600 series, press the leftmost soft button.

1.1.3 Entering Characters

Section 2

PT Programming

This section serves as reference operating instructions when using a display PT to programme the PBX.

2.1 PT Programming

2.1.1 Programming Instructions

Required Telephone/Extension










PBX settings can be customised through system programming by using a proprietary telephone (PT) with a multiline display, such as the KX-NT343 or KX-DT346. To access system programming, the Class of Service (COS) assigned to the PT's extension must be programmed to allow system programming, or the PT must be connected to the lowest-numbered port on the card installed in the lowest-numbered slot.

Only one system programming session can be performed at a time. This means that only one user can access system programming at a time, whether through a PT or PC.

For a list of characters that can be entered during system programming, see Section 1.1.3 Entering Characters.

Buttons and Functions

Fixed Buttons			Function
KX-NT300/KX-DT300	KX-NT136/KX-T7600	KX-T7200/KX-T7400/ KX-T7500 ^{*1}	
			PREVIOUS
			NEXT
			 (Page up)
			 (Page down)
			ENTER
		—	Back to Previous Menu (CANCEL)
			SHIFT
			PROGRAM
			END
			SELECT

Fixed Buttons			Function
KX-NT300/KX-DT300	KX-NT136/KX-T7600	KX-T7200/KX-T7400/ KX-T7500 ^{*1}	
			FLASH
			CLEAR
			SECRET

^{*1} The buttons shown in this column are from the KX-T7400 series.

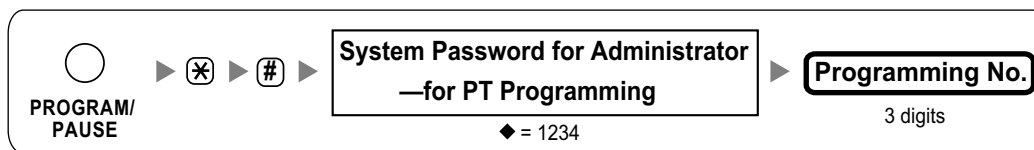
Entering System Programming Mode

Using a PT to perform system programming allows an authorised extension user to set a wide range of PBX features and parameters.

There are two levels of system programming that can be performed with a PT: administrator-level programming and user-level programming.

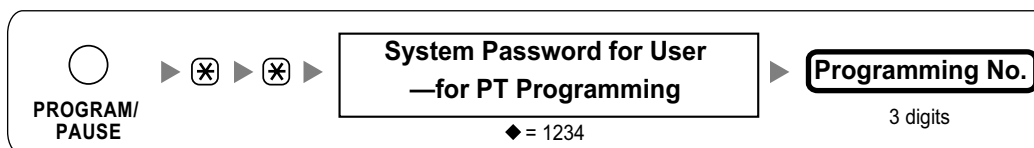
Administrator Level:

Allows the programming of all settings accessible through PT programming.



User Level:

Allows the programming of limited settings as permitted through PC programming.



Note

◆ means default value throughout this manual.

Programming Structure

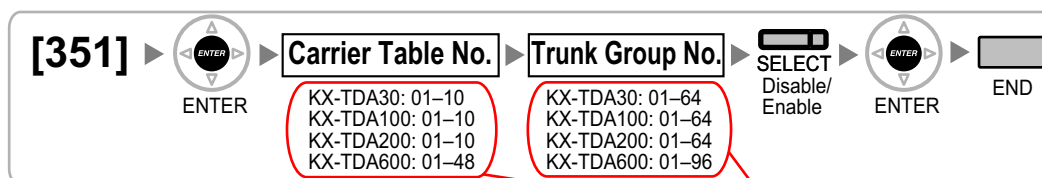
Programming Number	Programming Group Title	Description
[0XX]	Basic Programming	Frequently used programming steps
[1XX]	System Management Programming	Global system parameters
[2XX]	Timer Programming	System timers

2.1.1 Programming Instructions

Programming Number	Programming Group Title	Description
[3XX]	TRS/Barring/ARS Programming	TRS/Barring and Automatic Route Selection (ARS) programming
[4XX]	Trunk Programming	Trunk, trunk group, and BRI line settings
[5XX]	COS Programming	Class of Service parameters
[6XX]	Extension Programming	Extension feature settings
[7XX]	Resource/Interface Programming	PBX interface and external device settings
[8XX]	SMDR & Maintenance Programming	Station Message Detail Recording (SMDR) and maintenance feature settings
[9XX]	Card Programming	Used to display the cards currently installed in the PBX, or to delete a card from system programming before physically removing it.

2.1.2 Maximum Values

Throughout this manual, maximum entry values are shown for each programming item. When maximum entry values for one or more of the supported PBX models differ, these differences are listed within the programming item, as shown in the example below.



These values vary by PBX model

However, please note that extension number, slot and port entry values are not listed within each programming item. These values vary depending on the model of PBX and the card type installed, as shown below.

Extension Numbers

All models: 1–5 digits

Feature Numbers

All models: 1–4 digits

KX-TDA30 Slot and Port Values

Available Slot Entry Values

Slot Number	Supported Cards
01	Pre-installed Super Hybrid Ports
02–04	BRI1, BRI2, DLC4, LCOT2, LCOT4 cards
05–07	DLC8 card
08–09	DPH2, DPH4 cards

Enter slot numbers as two-digit numbers (e.g. "04" for slot 4).

Available Port Entry Values

Card Type	Port Number	Related Programming
BRI1	01	[400] [409] [42x] [450]
BRI2	01–02	
DLC4	01–04	[600] [601]
DLC8	01–08	
DPH2	01–02	[72x]
DPH4	01–04	

2.1.2 Maximum Values

Card Type	Port Number	Related Programming
LCOT2	01–02	[400] [409] [41x] [450]
LCOT4	01–04	
Pre-installed Super Hybrid Ports	01–04	[600] [601]

Enter values as two-digit numbers (e.g. "04" for port 4).

KX-TDA100/KX-TDA200/KX-TDA600 Slot and Port Values

Available Slot Entry Values

KX-TDA100/KX-TDA200

PBX Model	Slot Number	Supported Cards
KX-TDA100	01–06	All cards
KX-TDA200	01–11	

Enter slot numbers as two-digit numbers (e.g. "04" for slot 4).

KX-TDA600

Slot Number	Supported Cards
101–110	All cards
201–211	
301–311	
401–411	

Enter slot numbers as three-digit numbers of the form "XYX":

- X: Shelf number (1-4)
- YY: Slot number (01-11)

Available Port Entry Values

Card Type	Port Number	Related Programming
BRI4	01–04	[400] [409] [42x] [450]
BRI8	01–08	
DHLC8	01–08	[600] [601]
DLC8	01–08	
DLC16	01–16	
DPH2	11–32 ^{*1}	[72x]
DPH4	11–34 ^{*1}	

Card Type	Port Number	Related Programming
LCOT4 (KX-TDA100/KX-TDA200 only)	01–04	[400] [409] [41x] [450]
LCOT8 (KX-TDA100/KX-TDA200 only)	01–08	
LCOT16 (KX-TDA100/KX-TDA200 only)	01–16	
ELCOT16 (KX-TDA600 only)	01–16	

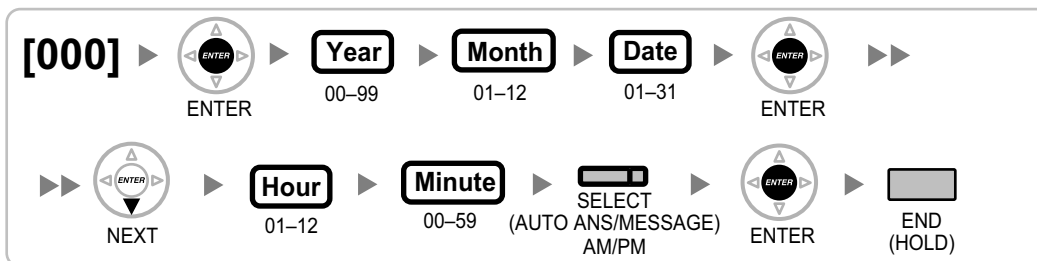
Enter values as two-digit numbers (e.g. "04" for port 4).

*1 Enter card number and port number as single-digit numbers (e.g. "34" for card 3, port 4).

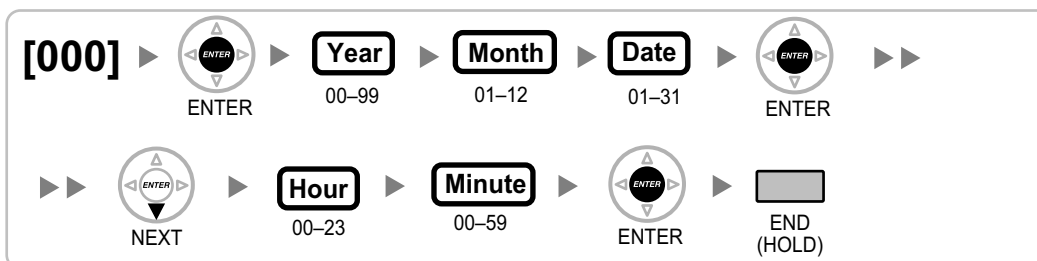
2.1.3 Basic Programming

[000] Date & Time

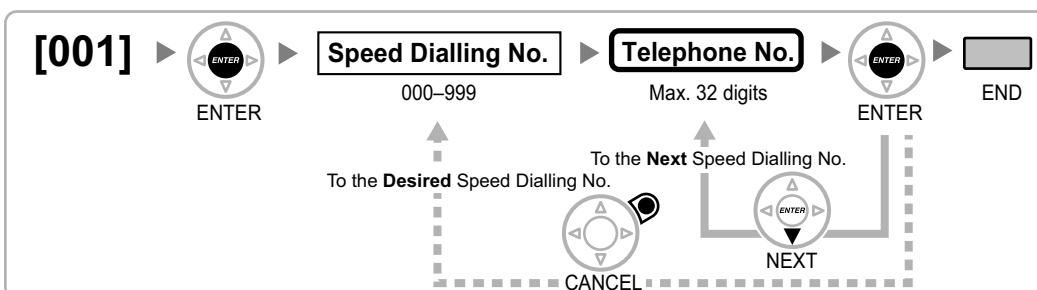
[In 12-hour Format]



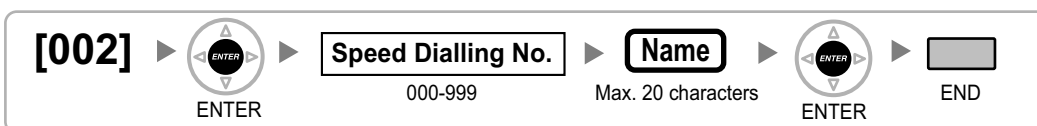
[In 24-hour Format]



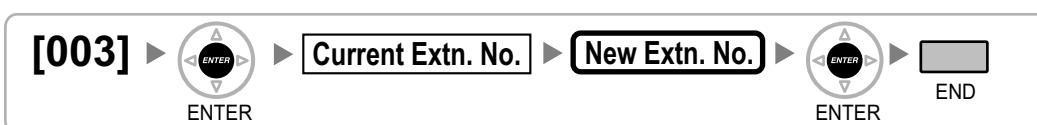
[001] System Speed Dialling Number



[002] System Speed Dialling Name



[003] Extension Number



Note

- Extension numbers of PSs can be a maximum of 4 digits.
- If PC Phone, PC Console, or a CTI application is running on a PC connected to an extension whose extension number is to be programmed/modified, quit the application first.

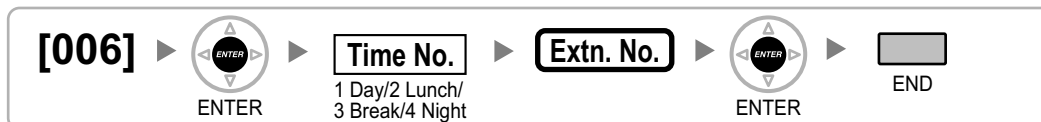
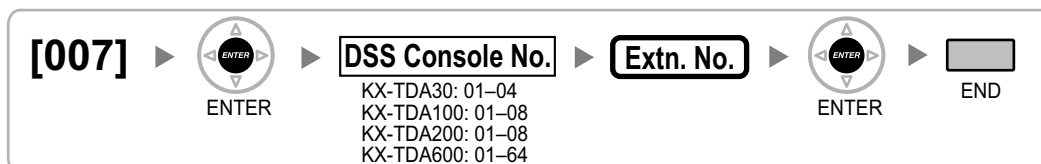
[004] Extension Name**[005] Extension Personal Identification Number (PIN)****CAUTION**

There is a risk that fraudulent telephone calls will be made if a third party discovers a personal identification number (PIN) (verification code PIN or extension PIN) of the PBX.

The cost of such calls will be billed to the owner/renter of the PBX.

To protect the PBX from this kind of fraudulent use, we strongly recommend:

- Keeping PINs secret.
- Selecting complex, random PINs that cannot be easily guessed.
- Changing PINs frequently.

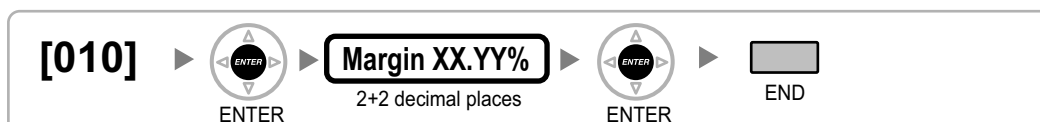
[006] Operator Assignment**[007] DSS Console Paired Telephone****Note**

- This programme is only available after the port connected to the DSS Console is assigned as "DSS Console" in [601] Terminal Device Assignment.
- If one or more SDN buttons have been set at the DSS Console, they must be deleted before this setting can be changed (KX-TDA100/KX-TDA200/KX-TDA600 only).

[008] Absent Message



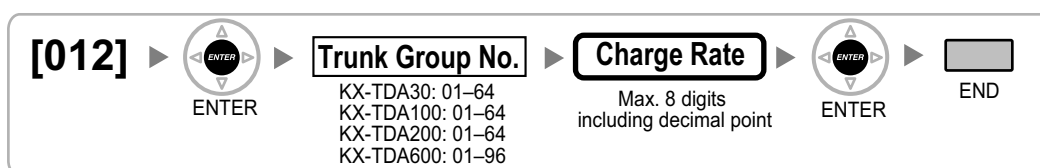
[010] Charge Margin



[011] Charge Tax

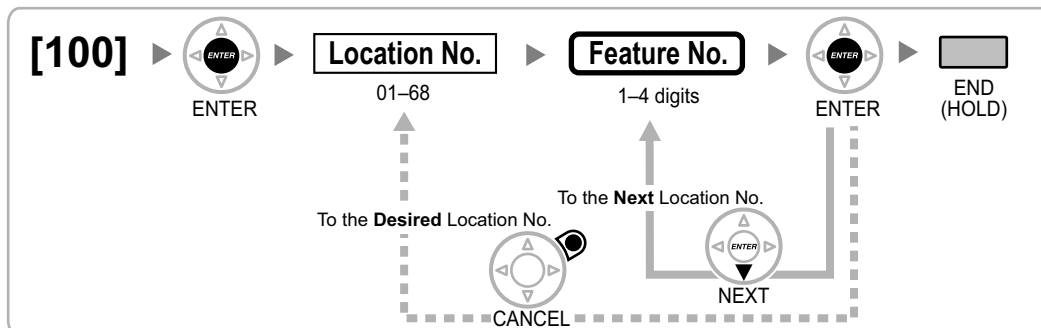


[012] Charge Rate per Unit

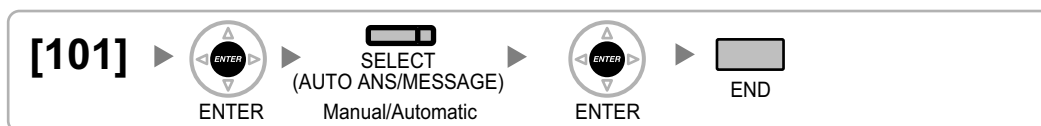


2.1.4 System Management Programming

[100] Flexible Numbering

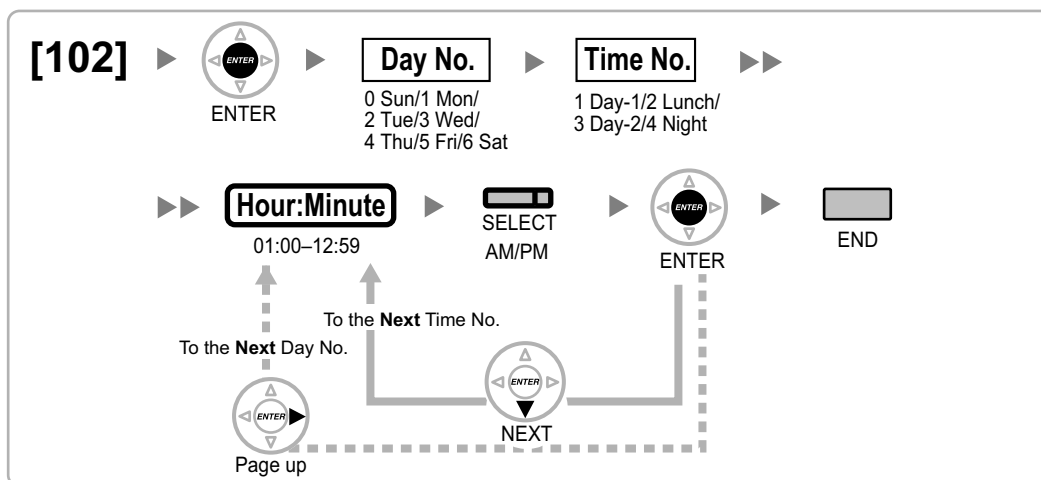


[101] Time Service Switching Mode

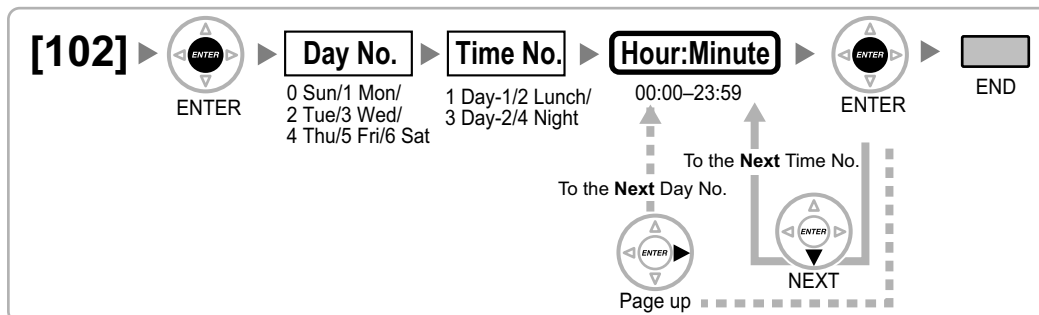


[102] Time Service Starting Time

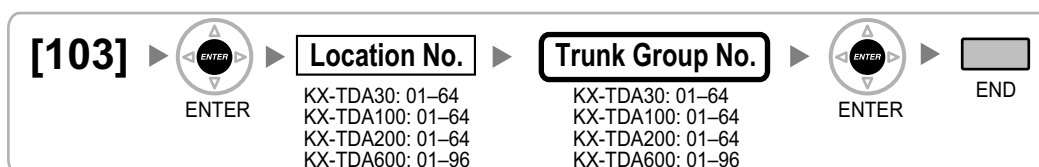
[In 12-hour Format]



[In 24-hour Format]



[103] Idle Line Access (Local Access)



[110] System Password for Administrator—for PT Programming



[111] System Password for User—for PT Programming

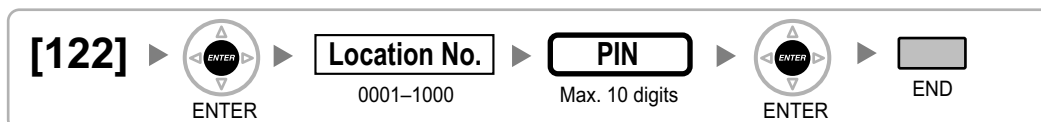


[112] Manager Password



[120] Verification Code



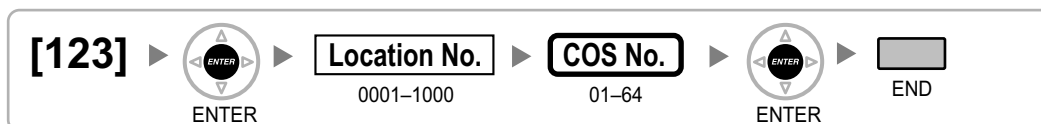
[121] Verification Code Name**[122] Verification Code Personal Identification Number (PIN)****CAUTION**

There is a risk that fraudulent telephone calls will be made if a third party discovers a personal identification number (PIN) (verification code PIN or extension PIN) of the PBX.

The cost of such calls will be billed to the owner/renter of the PBX.

To protect the PBX from this kind of fraudulent use, we strongly recommend:

- a. Keeping PINs secret.
- b. Selecting complex, random PINs that cannot be easily guessed.
- c. Changing PINs frequently.

[123] Verification Code COS Number**[130] Decimal Point Position for Currency****[131] Currency**

[190] Main Processing (MPR) Software Version Reference

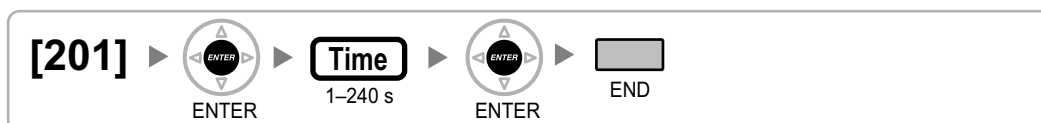


2.1.5 Timer Programming

[200] Hold Recall Time



[201] Transfer Recall Time



[203] Intercept Time



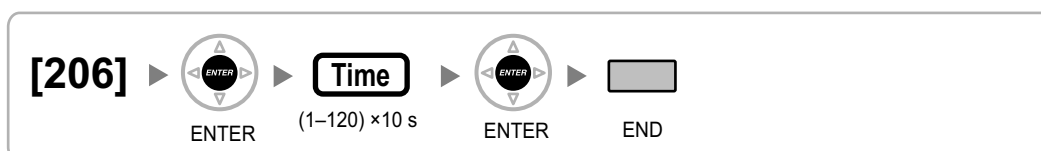
[204] Hot Line Waiting Time



[205] Automatic Redial Repeat Times



[206] Automatic Redial Interval



[207] Door Unlock Time



[208] Call Duration Count Starting Time for LCOT



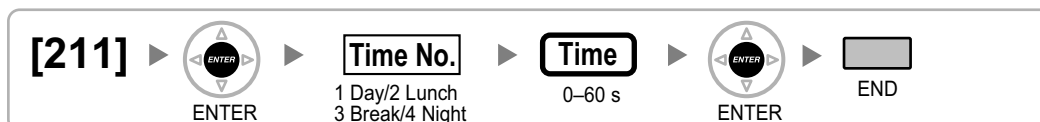
[209] DISA Delayed Answer Time



[210] DISA Trunk-to-Trunk Call Prolong Time

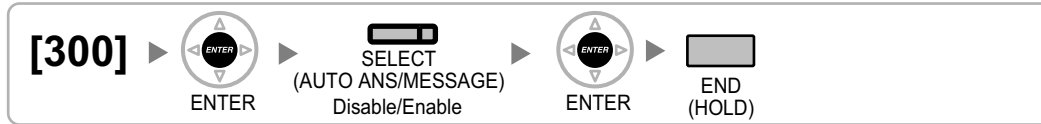


[211] DISA Intercept Time

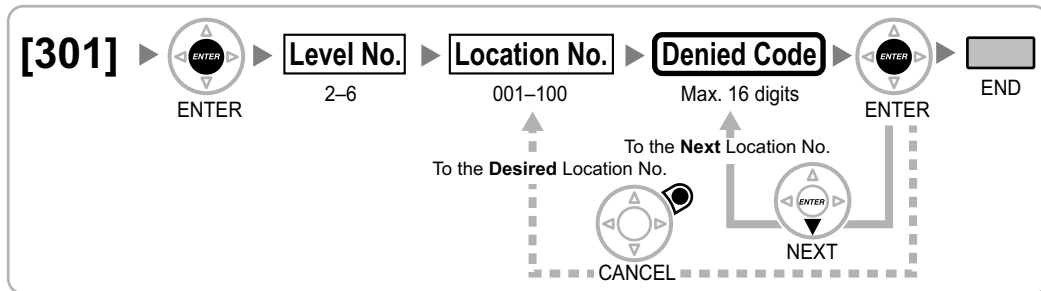


2.1.6 TRS/Barring/ARS Programming

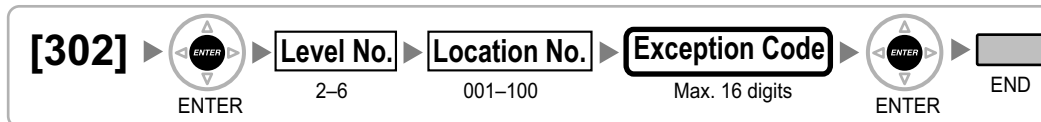
[300] TRS/Barring Override by System Speed Dialling



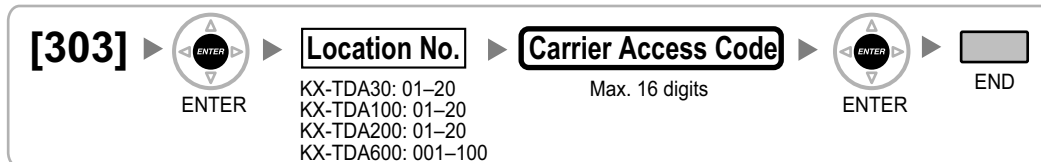
[301] TRS/Barring Denied Code



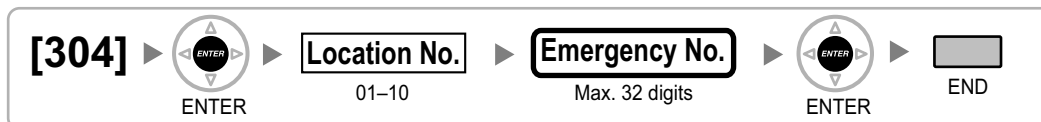
[302] TRS/Barring Exception Code



[303] Special Carrier Access Code



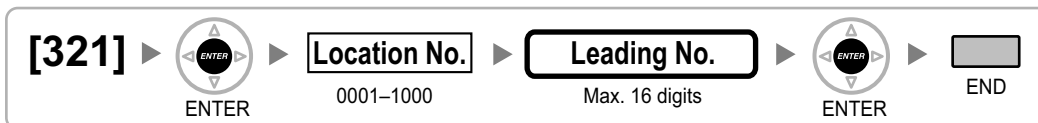
[304] Emergency Number



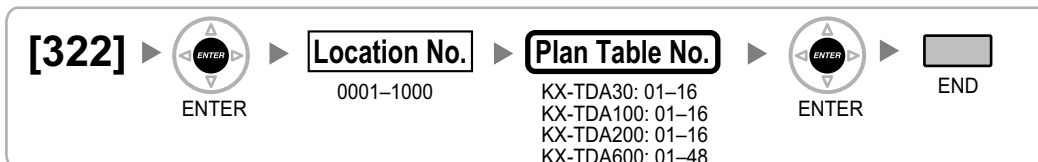
[320] ARS Mode



[321] ARS Leading Number



[322] ARS Routing Plan Table Number

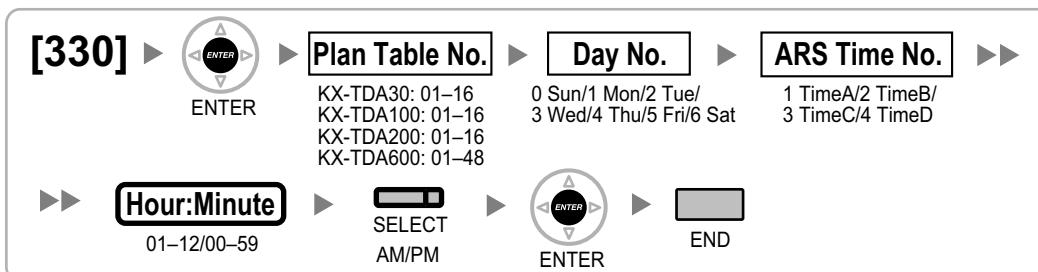


[325] ARS Exception Number

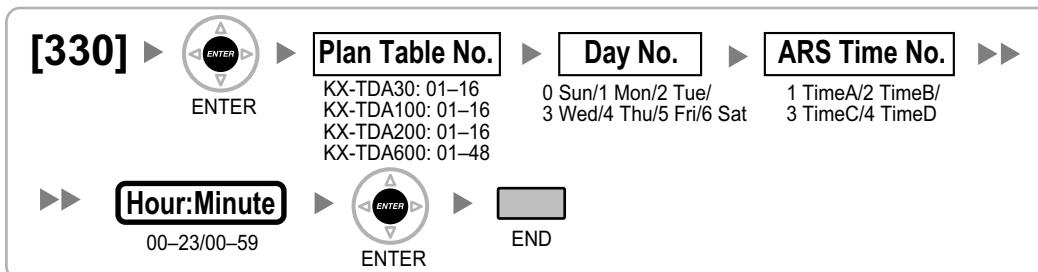


[330] ARS Routing Plan Time Table

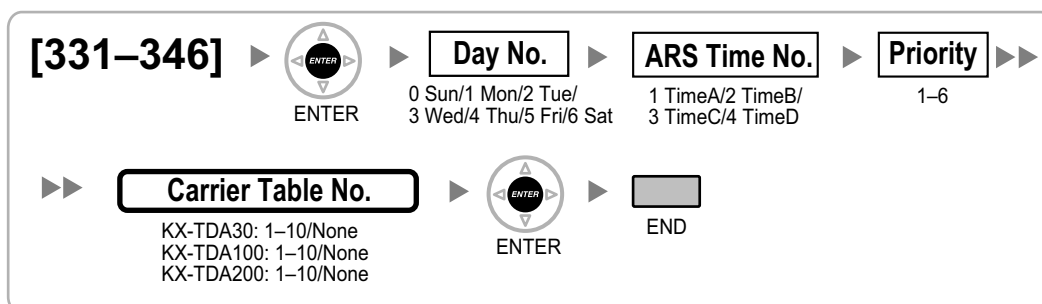
[In 12-hour Format]



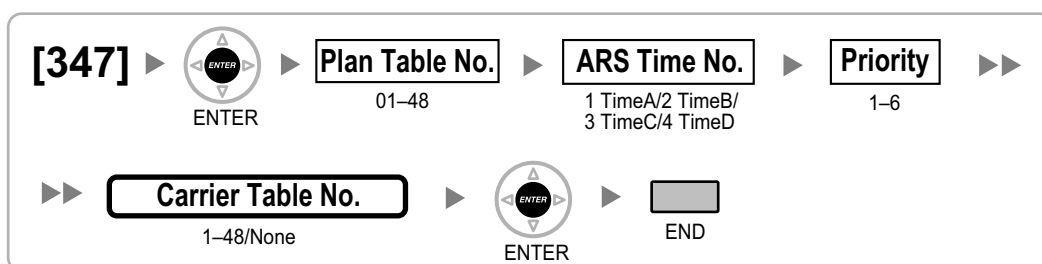
[In 24-hour Format]



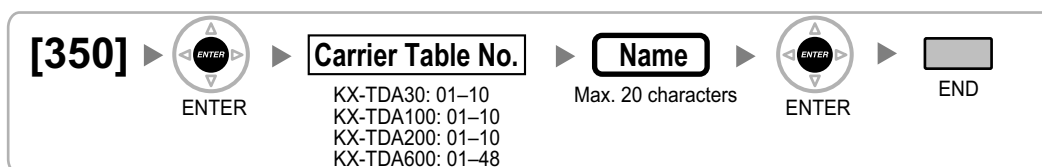
[331–346] ARS Routing Plan Table (1–16) (KX-TDA30/KX-TDA100/KX-TDA200 only)



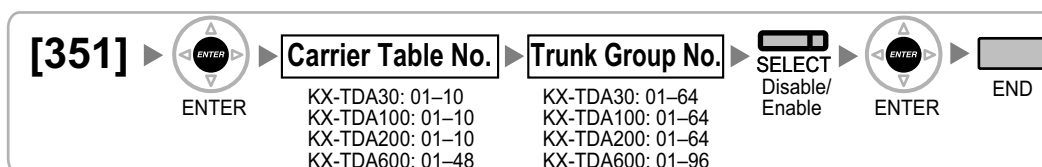
[347] ARS Routing Plan Table (1–48) (KX-TDA600 only)



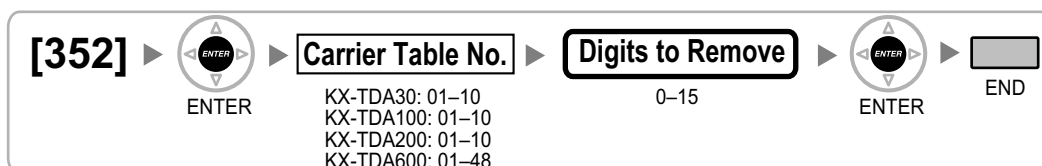
[350] ARS Carrier Name



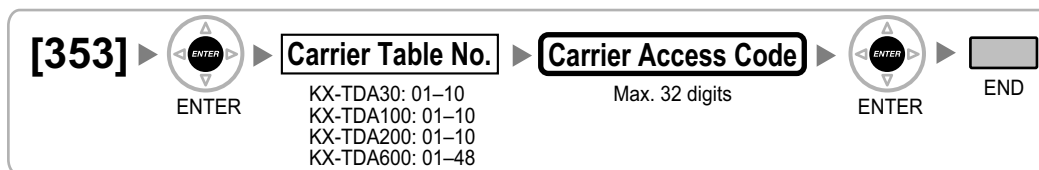
[351] ARS Trunk Group for Carrier Access



[352] ARS Removed Number of Digits for Carrier Access

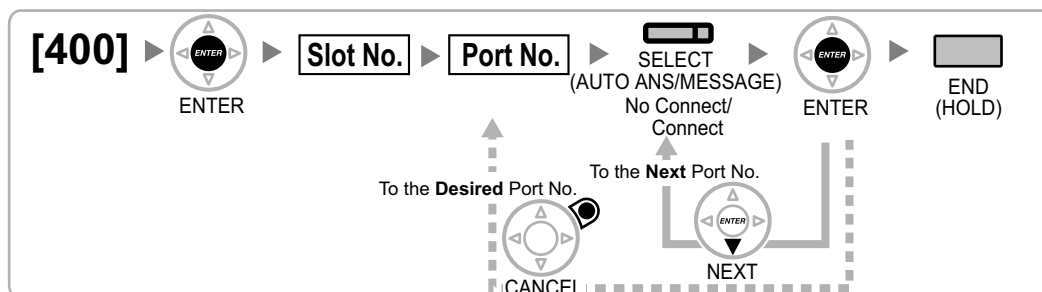


[353] ARS Carrier Access Code



2.1.7 Trunk Programming

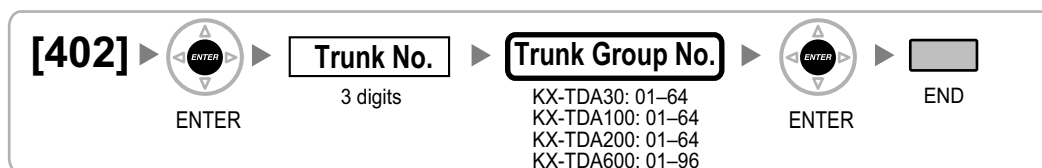
[400] LCOT/BRI Trunk Connection



[401] LCOT/BRI Trunk Name



[402] LCOT/BRI Trunk Group Number



[409] LCOT/BRI Trunk Number Reference



[410] LCOT Dialling Mode



[411] LCOT Pulse Rate



[412] LCOT DTMF Minimum Duration



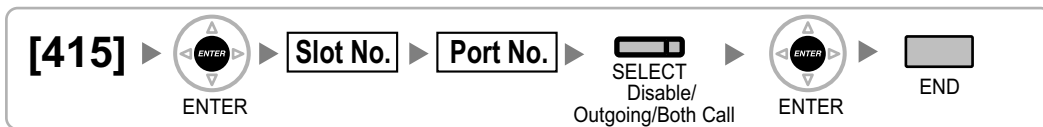
[413] LCOT CPC Signal Detection Time—Outgoing



[414] LCOT CPC Signal Detection Time—Incoming



[415] LCOT Reverse Circuit



[416] LCOT Pause Time



[417] LCOT Flash/Recall Time



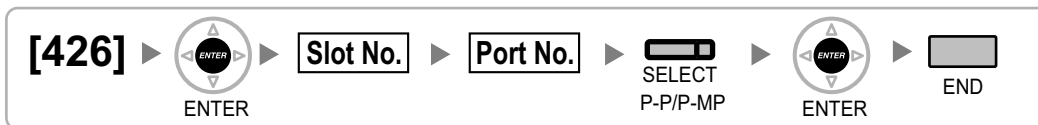
[418] LCOT Disconnect Time**[420] BRI Network Type****[421] BRI DIL/DDI/MSN Selection****[422] BRI Subscriber Number****[424] BRI Layer 1 Active Mode****Note**

After changing this setting, perform [902] Slot Card Reset to enable the new setting.

[425] BRI Layer 2 Active Mode**Note**

After changing this setting, perform [902] Slot Card Reset to enable the new setting.

[426] BRI Configuration



Note

After changing this setting, perform [902] Slot Card Reset to enable the new setting.

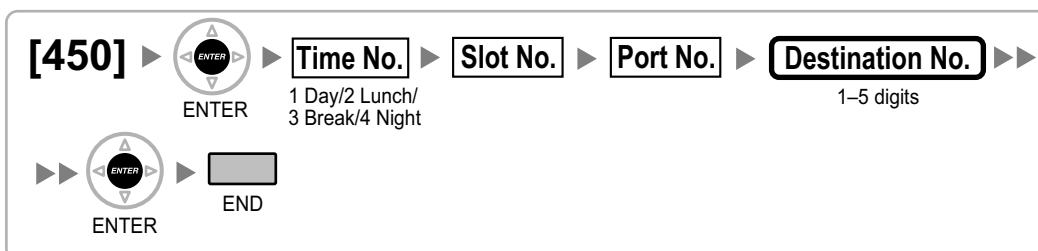
[427] BRI TEI Mode



Note

After changing this setting, perform [902] Slot Card Reset to enable the new setting.

[450] DIL 1:1 Destination



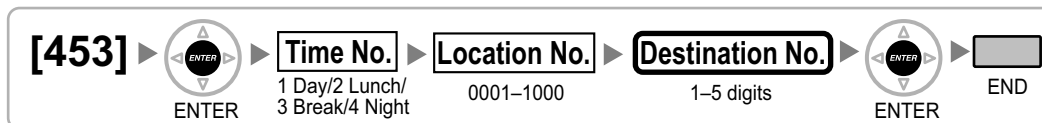
[451] DID Number



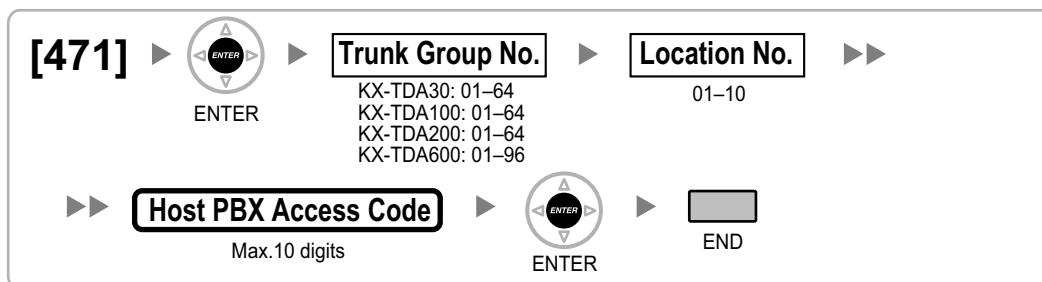
[452] DID Name



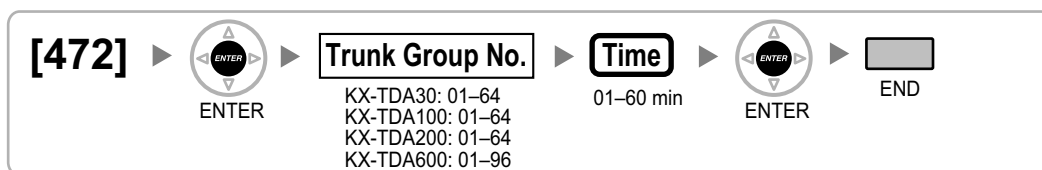
[453] DID Destination



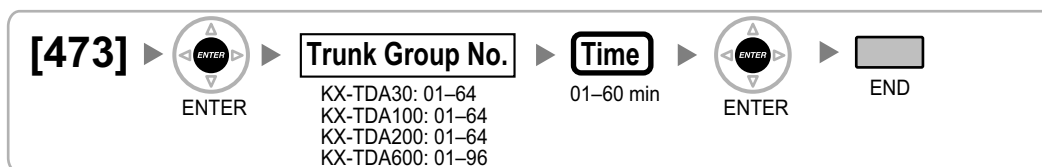
[471] Host PBX Access Code



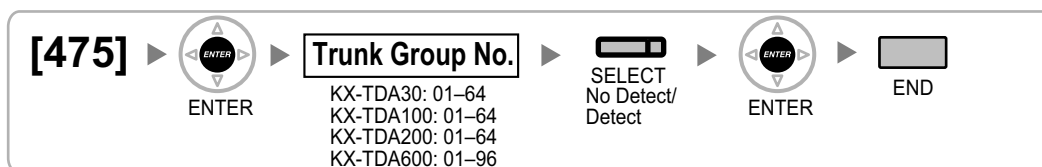
[472] Extension-to-Trunk Call Duration



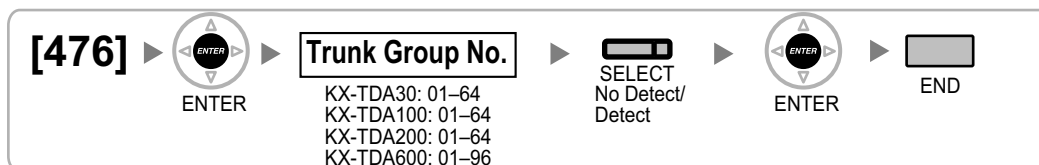
[473] Trunk-to-Trunk Call Duration



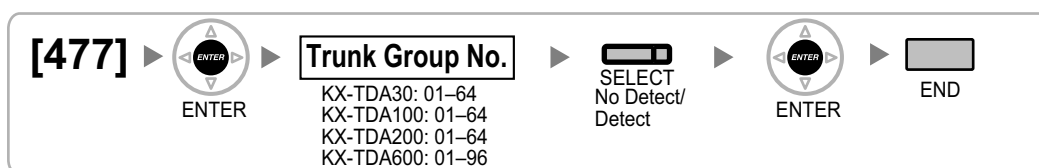
[475] DISA Silence Detection



[476] DISA Continuous Signal Detection



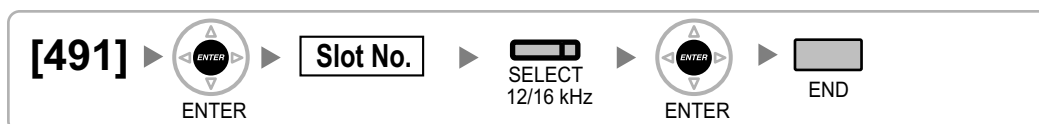
[477] DISA Cyclic Signal Detection



[490] Caller ID Signal Type

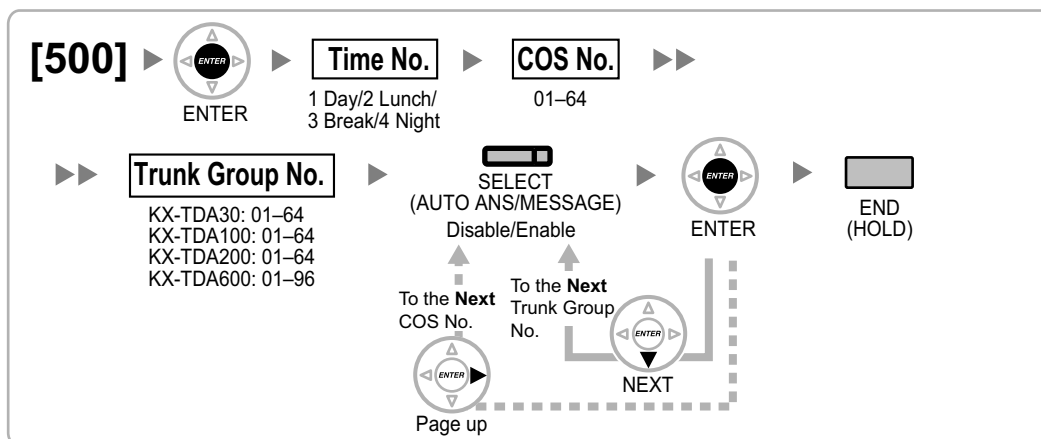


[491] Pay Tone Signal Type (KX-TDA100/KX-TDA200/KX-TDA600 only)

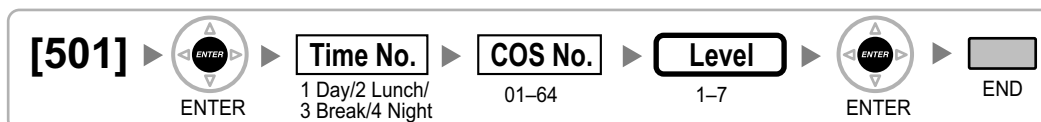


2.1.8 COS Programming

[500] Trunk Group Number



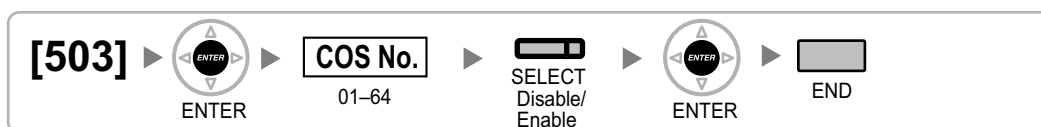
[501] TRS/Barring Level



[502] Trunk Call Duration Limitation



[503] Call Transfer to Trunk



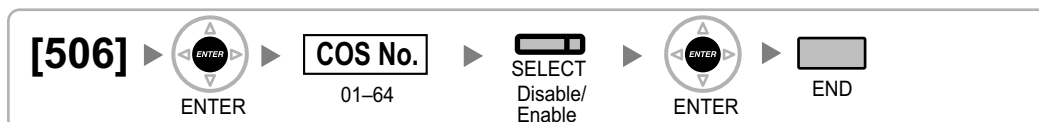
[504] Call Forwarding to Trunk



[505] Executive Busy Override



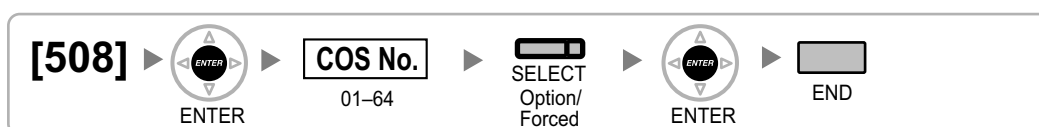
[506] Executive Busy Override Deny



[507] DND Override



[508] Account Code Mode



[509] TRS/Barring Level for System Speed Dialling



[510] TRS/Barring Level for Extension Dial Lock



[511] Manager Assignment



[512] Permission for Door Open Access



[514] Time Service Manual Switching



[515] Wireless XDP Parallel Mode for Paired Telephone

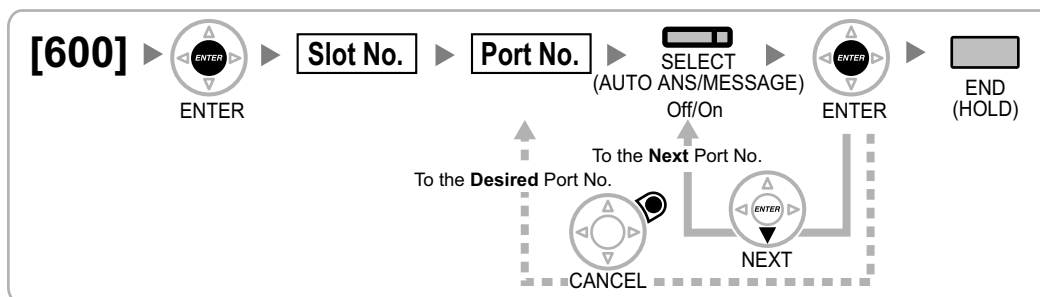


[516] Programming Mode Limitation

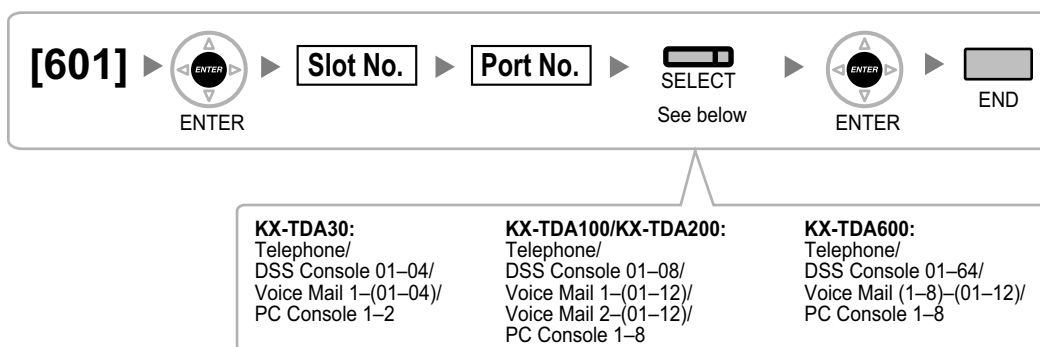


2.1.9 Extension Programming

[600] EXtra Device Port (XDP) Mode



[601] Terminal Device Assignment



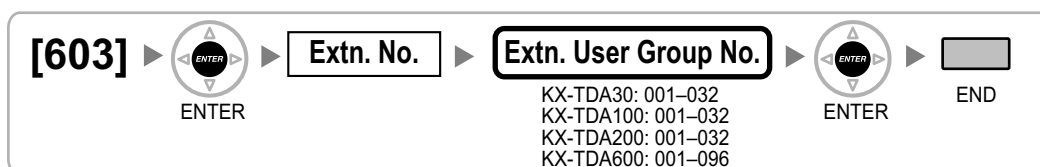
Note

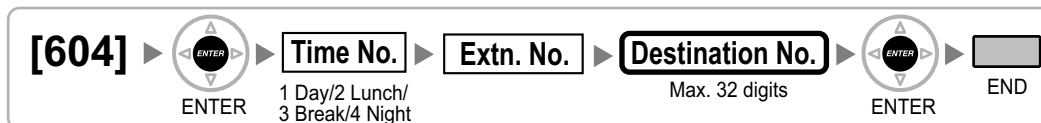
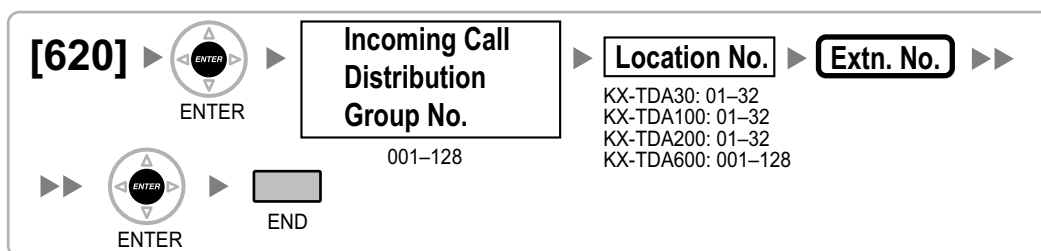
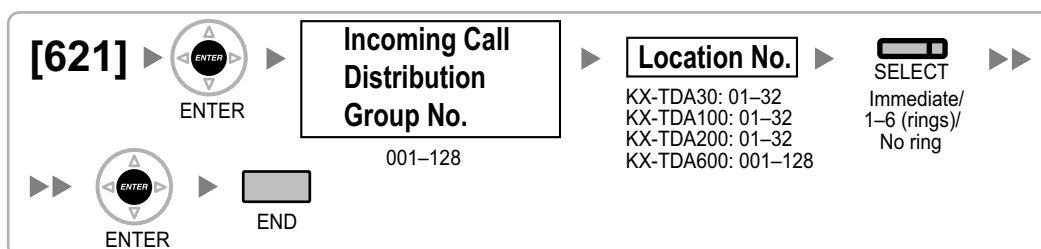
When changing the type of a port for which one or more SDN buttons are set (except when changing between PC Console and Telephone), all SDN buttons customised for that device will be deleted (KX-TDA100/KX-TDA200/KX-TDA600 only).

[602] Class of Service

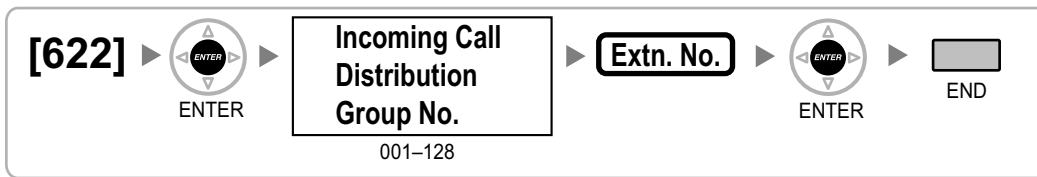


[603] Extension User Group

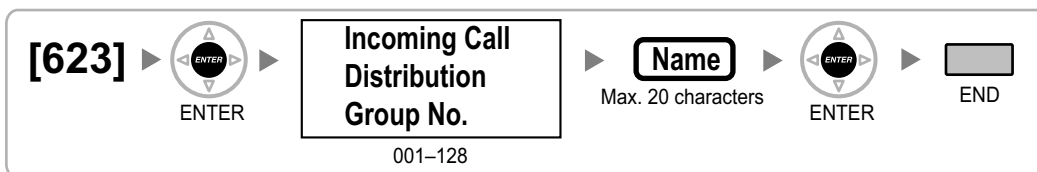


[604] Extension Intercept Destination**[605] Call Forwarding—No Answer Time****[606] CLIP/COLP Number****[620] Incoming Call Distribution Group Member****[621] Incoming Call Distribution Group Delayed Ringing**

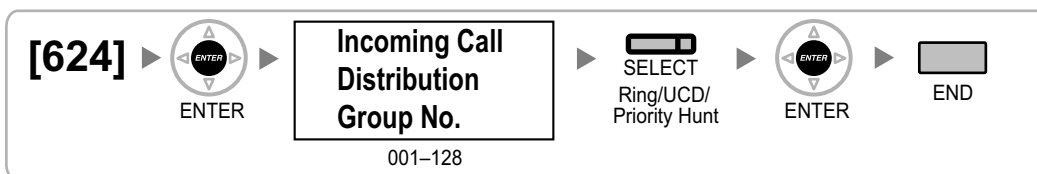
[622] Incoming Call Distribution Group Floating Extension Number



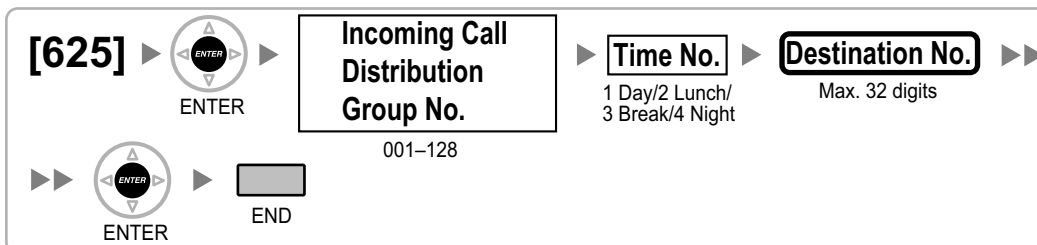
[623] Incoming Call Distribution Group Name



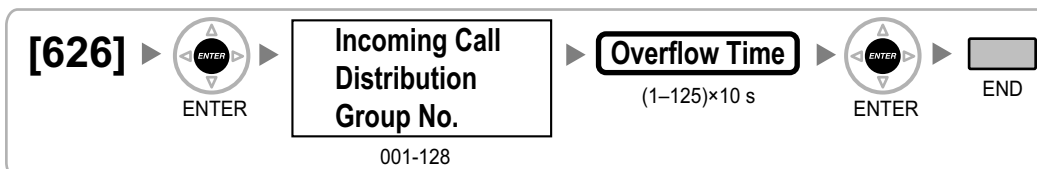
[624] Incoming Call Distribution Group Distribution Method

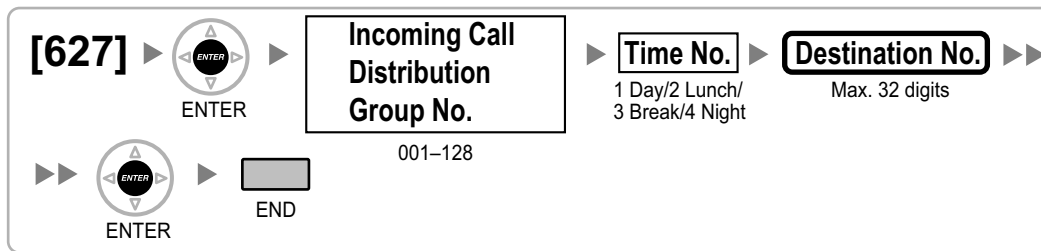
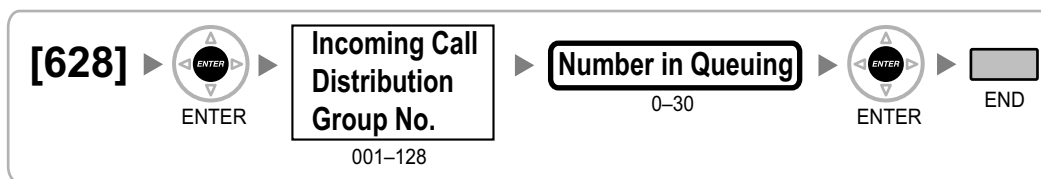
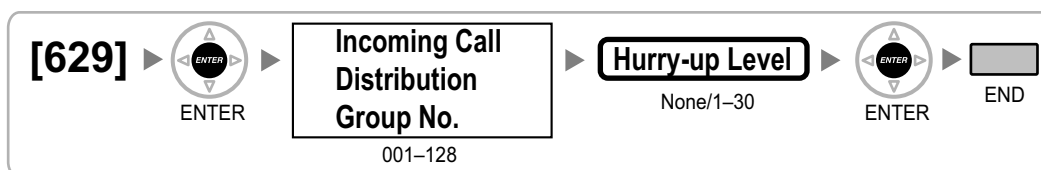
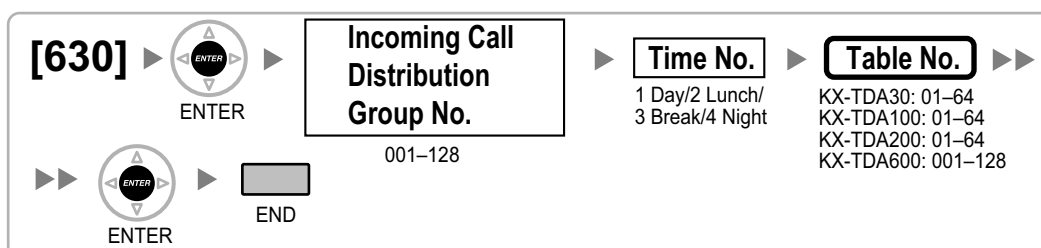
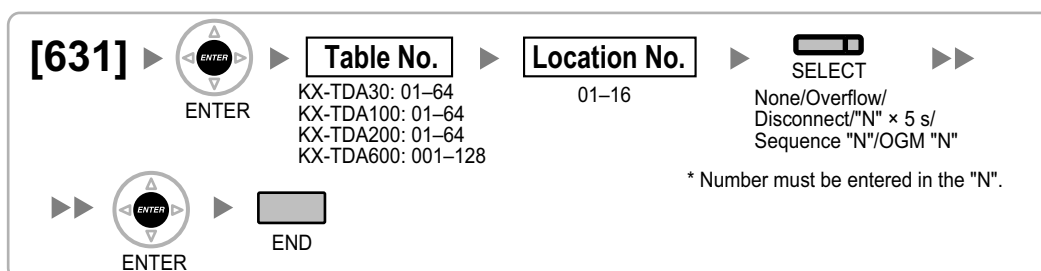


[625] Destination for Overflow Time Expiration

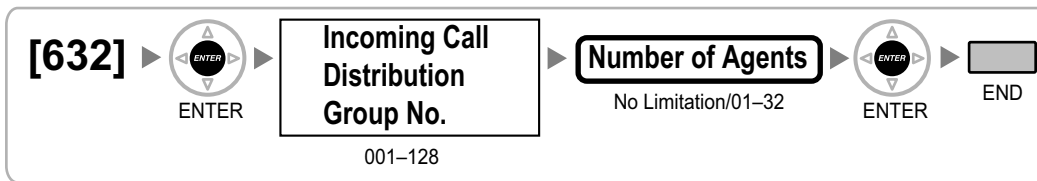


[626] Overflow Time

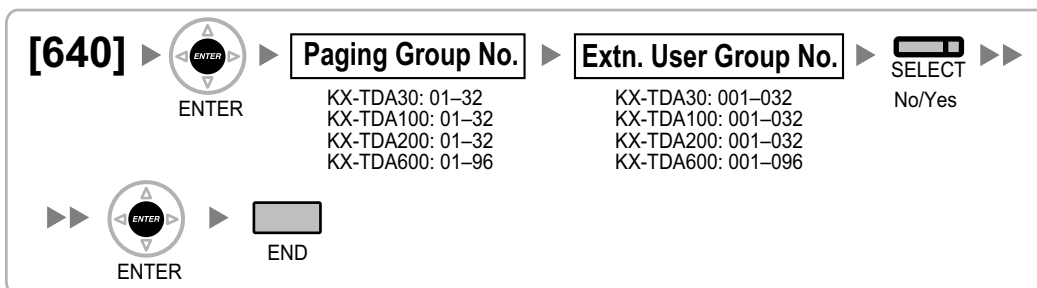


[627] Destination When All Busy**[628] Queuing Call Capacity****[629] Queuing Hurry-up Level****[630] Queuing Time Table****[631] Sequences in Queuing Time Table**

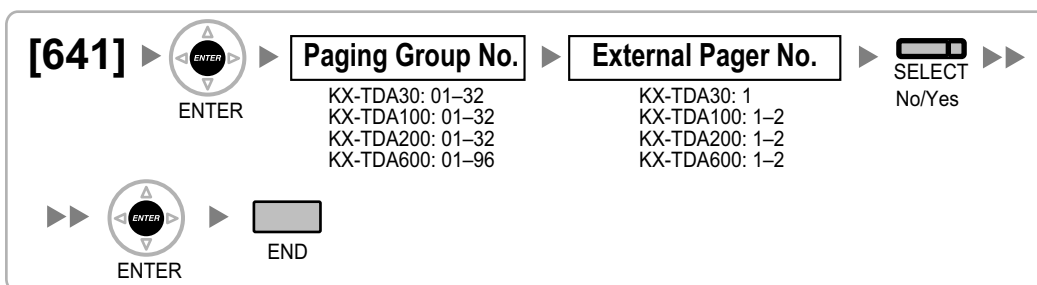
[632] Maximum Number of Agents



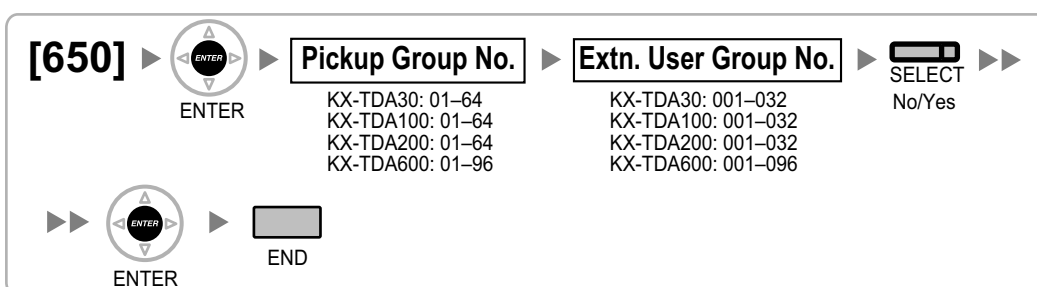
[640] Extension User Groups of a Paging Group



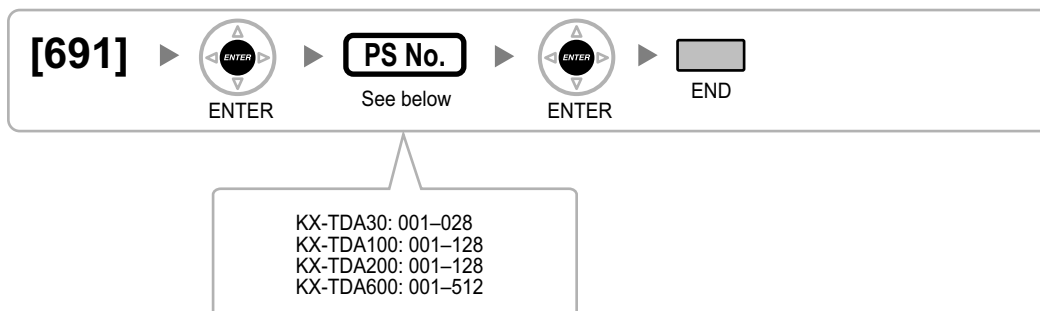
[641] External Pagers of a Paging Group



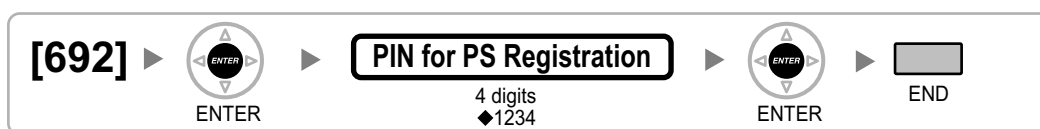
[650] Extension User Groups of a Pickup Group



[691] PS Termination



[692] Personal Identification Number (PIN) for PS Registration



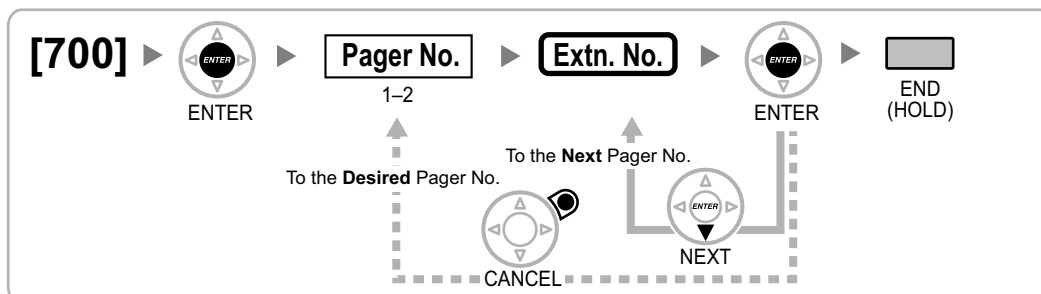
[699] CS Status Reference



2.1.10 Resource/Interface Programming

[700] External Pager Floating Extension Number

[KX-TDA100/KX-TDA200/KX-TDA600]



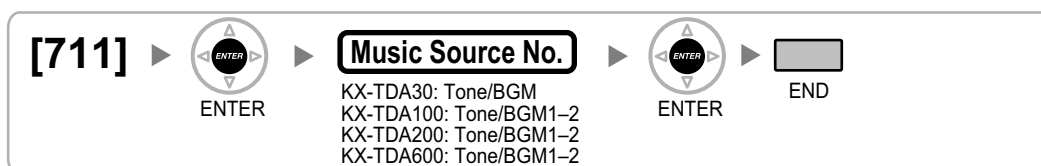
[KX-TDA30]



[710] Music Source Selection for BGM (with the KX-TDA30)/BGM2 (with the KX-TDA100/KX-TDA200/KX-TDA600)



[711] Music on Hold

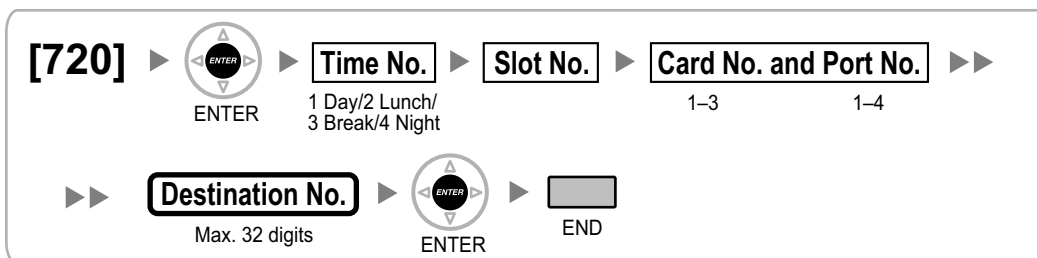


[712] Music for Transfer

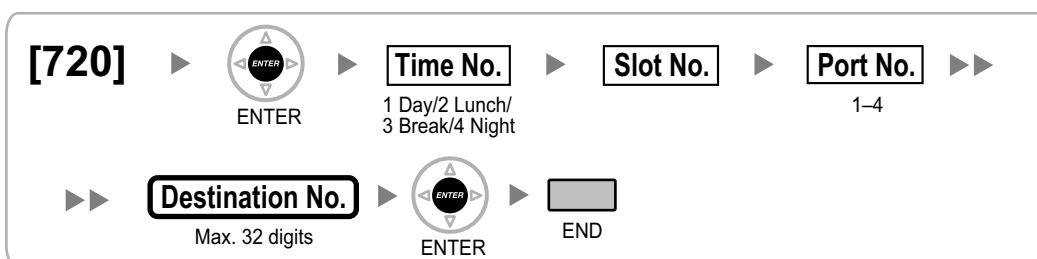


[720] Doorphone Call Destination

[KX-TDA100/KX-TDA200/KX-TDA600]

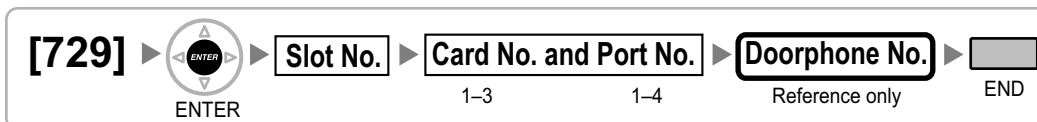


[KX-TDA30]



[729] Doorphone Number Reference

[KX-TDA100/KX-TDA200/KX-TDA600]



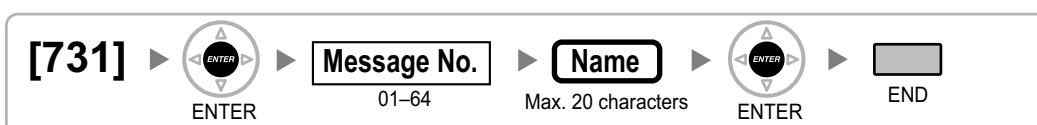
[KX-TDA30]



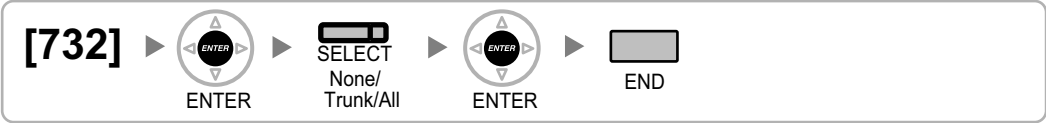
[730] Outgoing Message (OGM) Floating Extension Number



[731] Outgoing Message (OGM) Name



[732] DISA Security Mode



2.1.11 SMDR & Maintenance Programming

[800] RS-232C Parameter—New Line Code



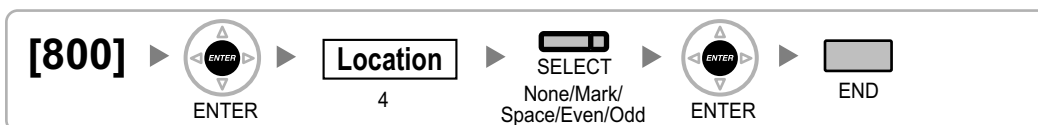
[800] RS-232C Parameter—Baud Rate



[800] RS-232C Parameter—Word Length



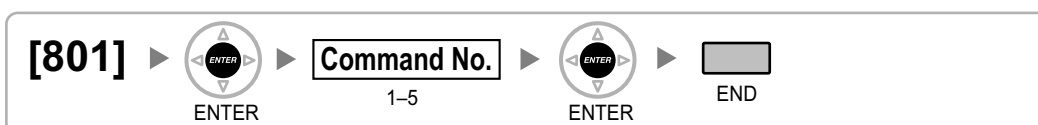
[800] RS-232C Parameter—Parity Bit

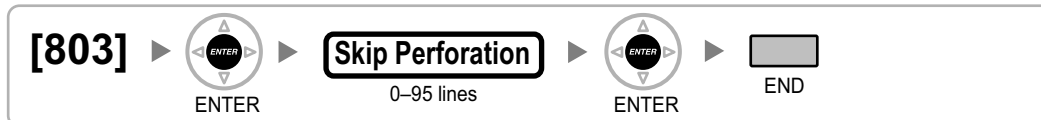
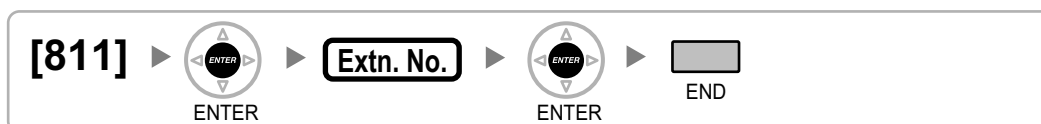
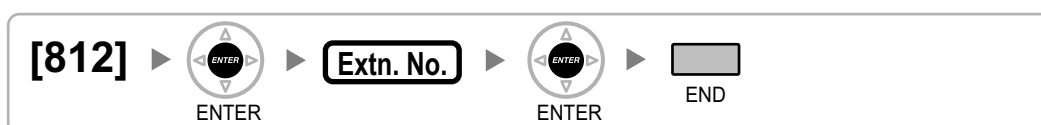


[800] RS-232C Parameter—Stop Bit Length



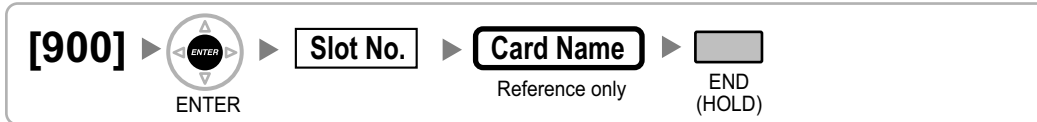
[801] External Modem Control



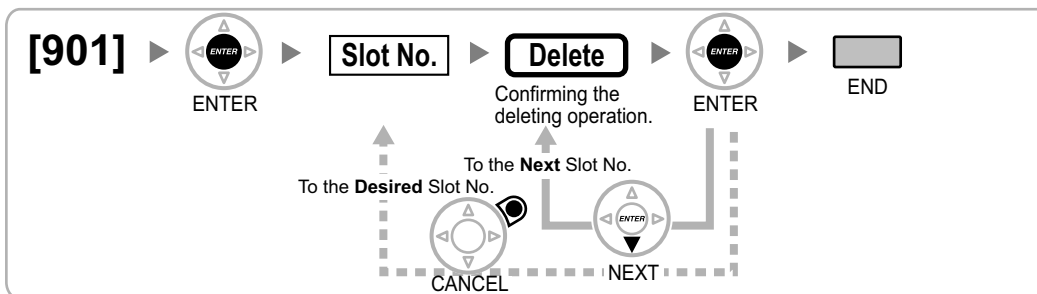
[802] SMDR Page Length**[803] SMDR Skip Perforation****[804] SMDR Outgoing Call Printing****[805] SMDR Incoming Call Printing****[810] Remote Programming****[811] Modem Floating Extension Number****[812] ISDN Remote Floating Extension Number**

2.1.12 Card Programming

[900] Slot Card Type Reference



[901] Slot Card Deletion



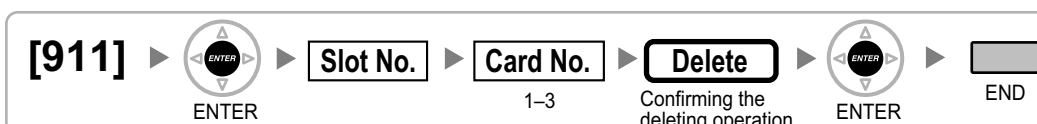
[902] Slot Card Reset



[910] OPB3 Option Card Type Reference (KX-TDA100/KX-TDA200/KX-TDA600 only)



[911] OPB3 Option Card Deletion (KX-TDA100/KX-TDA200/KX-TDA600 only)



Section 3

Appendix

3.1 Revision History

3.1.1 KX-TDA600 PLMPR Software File Version 3.1xxx

Changed Contents

- [007] DSS Console Paired Telephone
- [601] Terminal Device Assignment

3.1.2 KX-TDA100/KX-TDA200 PMPR Software File Version 3.2xxx

Changed Contents

- 2.1.2 Maximum Values
- [007] DSS Console Paired Telephone
- [601] Terminal Device Assignment

3.1.3 KX-TDA100/KX-TDA200 PMPR Software File Version 5.0xxx

Changed Contents

- 2.1.1 Programming Instructions
- 2.1.2 Maximum Values
- 2.1.9 Extension Programming

3.1.4 KX-TDA30 PSMPR Software File Version 4.0xxx

Changed Contents

- 2.1.1 Programming Instructions
- 2.1.2 Maximum Values

3.1.5 KX-TDA30 PSMPR Software File Version 5.0xxx

Changed Contents

- 2.1.1 Programming Instructions

3.2 Feature Programming References

A

Absent Message

- [008] Absent Message

Feature Guide References

1.19.2 Absent Message

Account Code Entry

- [508] Account Code Mode

Feature Guide References

1.5.4.3 Account Code Entry

Automatic Route Selection (ARS)

- [320] ARS Mode
- [321] ARS Leading Number
- [322] ARS Routing Plan Table Number
- [325] ARS Exception Number
- [330] ARS Routing Plan Time Table
- [331–346] ARS Routing Plan Table (1–16) (KX-TDA30/KX-TDA100/KX-TDA200 only)
- [347] ARS Routing Plan Table (1–48) (KX-TDA600 only)
- [350] ARS Carrier Name
- [351] ARS Trunk Group for Carrier Access
- [352] ARS Removed Number of Digits for Carrier Access
- [353] ARS Carrier Access Code

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

C

Call Charge Services

- [010] Charge Margin
- [011] Charge Tax
- [012] Charge Rate per Unit
- [130] Decimal Point Position for Currency
- [131] Currency
- [491] Pay Tone Signal Type (KX-TDA100/KX-TDA200/KX-TDA600 only)

Feature Guide References

1.26.3 Call Charge Services

Call Forwarding (FWD)

- [472] Extension-to-Trunk Call Duration
- [473] Trunk-to-Trunk Call Duration
- [504] Call Forwarding to Trunk
- [605] Call Forwarding—No Answer Time

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

Call Hold

- [200] Hold Recall Time

Feature Guide References

1.13.1 Call Hold

Call Pickup

- [650] Extension User Groups of a Pickup Group

Feature Guide References

1.4.1.3 Call Pickup

Call Transfer

- [201] Transfer Recall Time
- [503] Call Transfer to Trunk
- [712] Music for Transfer

Feature Guide References

1.12.1 Call Transfer

Caller ID

- [001] System Speed Dialling Number
- [002] System Speed Dialling Name
- [490] Caller ID Signal Type

Feature Guide References

1.18.1 Caller ID

Calling Line Identification (CLI) Distribution

- [001] System Speed Dialling Number
- [002] System Speed Dialling Name

Feature Guide References

1.1.1.5 Calling Line Identification (CLI) Distribution

Calling Party Control (CPC) Signal Detection

- [413] LCOT CPC Signal Detection Time—Outgoing
- [414] LCOT CPC Signal Detection Time—Incoming

Feature Guide References

1.11.10 Calling Party Control (CPC) Signal Detection

Calling/Connected Line Identification Presentation (CLIP/COLP)

- [003] Extension Number
- [422] BRI Subscriber Number
- [606] CLIP/COLP Number

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

Calling/Connected Line Identification Presentation (CLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CONP)—by QSIG

- [003] Extension Number
- [004] Extension Name

Feature Guide References

1.30.4.2 Calling/Connected Line Identification Presentation (CLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CONP)—by QSIG

Class of Service (COS)

- 2.1.8 COS Programming
- [602] Class of Service

Feature Guide References

2.2.1 Class of Service (COS)

D

Dial Type Selection

- [410] LCOT Dialling Mode
- [411] LCOT Pulse Rate
- [412] LCOT DTMF Minimum Duration

Feature Guide References

1.5.4.4 Dial Type Selection

Direct In Line (DIL)

- [421] BRI DIL/DDI/MSN Selection
- [450] DIL 1:1 Destination

Feature Guide References

1.1.1.2 Direct In Line (DIL)

Direct Inward Dialling (DID)/Direct Dialling In (DDI)

- [421] BRI DIL/DDI/MSN Selection
- [451] DID Number
- [452] DID Name
- [453] DID Destination

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

Direct Inward System Access (DISA)

- [209] DISA Delayed Answer Time
- [210] DISA Trunk-to-Trunk Call Prolong Time
- [211] DISA Intercept Time
- [475] DISA Silence Detection
- [476] DISA Continuous Signal Detection
- [477] DISA Cyclic Signal Detection
- [604] Extension Intercept Destination
- [730] Outgoing Message (OGM) Floating Extension Number
- [731] Outgoing Message (OGM) Name
- [732] DISA Security Mode

Feature Guide References

1.17.6 Direct Inward System Access (DISA)

Display Information

- [130] Decimal Point Position for Currency
- [131] Currency

Feature Guide References

1.20.4 Display Information

Do Not Disturb (DND)

- [507] DND Override

Feature Guide References

1.3.1.3 Do Not Disturb (DND)

Door Open

- [207] Door Unlock Time
- [512] Permission for Door Open Access

Feature Guide References

1.17.2 Door Open

Doorphone Call

- [720] Doorphone Call Destination
- [729] Doorphone Number Reference

Feature Guide References

1.17.1 Doorphone Call

E

Emergency Call

- [304] Emergency Number

Feature Guide References

1.5.4.2 Emergency Call

Executive Busy Override

- [505] Executive Busy Override
- [506] Executive Busy Override Deny

Feature Guide References

1.8.2 Executive Busy Override

Extension Dial Lock

- [510] TRS/Barring Level for Extension Dial Lock

Feature Guide References

1.9.3 Extension Dial Lock

Extension Personal Identification Number (PIN)

- [005] Extension Personal Identification Number (PIN)

Feature Guide References

1.28.1 Extension Personal Identification Number (PIN)

Extension Port Configuration

- [007] DSS Console Paired Telephone
- [600] EXtra Device Port (XDP) Mode

Feature Guide References

2.1.1 Extension Port Configuration

External Feature Access (EFA)

- [417] LCOT Flash/Recall Time

Feature Guide References

1.11.7 External Feature Access (EFA)

F

Flash/Recall/Terminate

- [418] LCOT Disconnect Time

Feature Guide References

1.11.6 Flash/Recall/Terminate

Flexible Numbering/Fixed Numbering

- [100] Flexible Numbering

Feature Guide References

2.3.6 Flexible Numbering/Fixed Numbering

Floating Extension

- [623] Incoming Call Distribution Group Name
- [660] VM Group Floating Extension Number
- [700] External Pager Floating Extension Number
- [730] Outgoing Message (OGM) Floating Extension Number
- [731] Outgoing Message (OGM) Name
- [811] Modem Floating Extension Number
- [812] ISDN Remote Floating Extension Number

Feature Guide References

2.3.7 Floating Extension

G

Group Call Distribution

- [621] Incoming Call Distribution Group Delayed Ringing
- [624] Incoming Call Distribution Group Distribution Method
- [632] Maximum Number of Agents

Feature Guide References

1.2.2.2 Group Call Distribution

H

Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)

- [471] Host PBX Access Code

Feature Guide References

1.5.4.8 Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)

Hot Line

- [204] Hot Line Waiting Time

Feature Guide References

1.6.1.7 Hot Line

I

Idle Extension Hunting

- [680] Idle Extension Hunting Type
- [681] Idle Extension Hunting Group Member

Feature Guide References

1.2.1 Idle Extension Hunting

Incoming Call Distribution Group Features

- [620] Incoming Call Distribution Group Member
- [621] Incoming Call Distribution Group Delayed Ringing
- [622] Incoming Call Distribution Group Floating Extension Number
- [623] Incoming Call Distribution Group Name
- [624] Incoming Call Distribution Group Distribution Method
- [625] Destination for Overflow Time Expiration
- [626] Overflow Time
- [627] Destination When All Busy
- [628] Queuing Call Capacity
- [629] Queuing Hurry-up Level
- [630] Queuing Time Table
- [631] Sequences in Queuing Time Table
- [632] Maximum Number of Agents

Feature Guide References

1.2.2 Incoming Call Distribution Group Features

Integrated Services Digital Network (ISDN)

- [420] BRI Network Type
- [424] BRI Layer 1 Active Mode
- [425] BRI Layer 2 Active Mode
- [426] BRI Configuration
- [427] BRI TEI Mode

Feature Guide References

1.21.1 Integrated Services Digital Network (ISDN)

Intercept Routing

- [203] Intercept Time
- [604] Extension Intercept Destination
- [625] Destination for Overflow Time Expiration

Feature Guide References

1.1.1.6 Intercept Routing

Intercept Routing—No Destination

- [006] Operator Assignment

Feature Guide References

1.1.1.7 Intercept Routing—No Destination

Intercom Call

- [003] Extension Number
- [004] Extension Name

Feature Guide References

1.5.3 Intercom Call

Internal Call Features

- [720] Doorphone Call Destination

Feature Guide References

1.1.2 Internal Call Features

L**Last Number Redial**

- [205] Automatic Redial Repeat Times
- [206] Automatic Redial Interval

Feature Guide References

1.6.1.4 Last Number Redial

Line Preference—Outgoing

- [103] Idle Line Access (Local Access)
- [500] Trunk Group Number

Feature Guide References

1.5.5.2 Line Preference—Outgoing

M

Manager Features

- [112] Manager Password
- [511] Manager Assignment

Feature Guide References

2.2.6 Manager Features

Multiple Subscriber Number (MSN) Ringing Service

- [421] BRI DIL/DDI/MSN Selection
- [426] BRI Configuration

Feature Guide References

1.1.1.4 Multiple Subscriber Number (MSN) Ringing Service

Music on Hold

- [710] Music Source Selection for BGM (with the KX-TDA30)/BGM2 (with the KX-TDA100/KX-TDA200/KX-TDA600)
- [711] Music on Hold

Feature Guide References

1.13.4 Music on Hold

N

Network Direct Station Selection (NDSS)

- [511] Manager Assignment

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

O

Operator Features

- [006] Operator Assignment

Feature Guide References

2.2.5 Operator Features

Outgoing Message (OGM)

- [631] Sequences in Queuing Time Table
- [730] Outgoing Message (OGM) Floating Extension Number

Feature Guide References

1.17.5 Outgoing Message (OGM)

Outside Destinations in Incoming Call Distribution Group

- [620] Incoming Call Distribution Group Member
- [621] Incoming Call Distribution Group Delayed Ringing
- [622] Incoming Call Distribution Group Floating Extension Number
- [624] Incoming Call Distribution Group Distribution Method
- [629] Queuing Hurry-up Level

Feature Guide References

1.2.2.3 Outside Destinations in Incoming Call Distribution Group

Overflow Feature

- [625] Destination for Overflow Time Expiration
- [626] Overflow Time
- [627] Destination When All Busy
- [628] Queuing Call Capacity
- [632] Maximum Number of Agents

Feature Guide References

1.2.2.6 Overflow Feature

P

Paging

- [640] Extension User Groups of a Paging Group
- [641] External Pagers of a Paging Group

Feature Guide References

1.15.1 Paging

Paralleled Telephone

- [600] EXtra Device Port (XDP) Mode

Feature Guide References

1.11.9 Paralleled Telephone

Pause Insertion

- [416] LCOT Pause Time

Feature Guide References

1.5.4.7 Pause Insertion

PC Phone/PC Console

- [601] Terminal Device Assignment

Feature Guide References

1.32.2 PC Phone/PC Console

Portable Station (PS) Connection

- [690] PS Registration
- [691] PS Termination
- [692] Personal Identification Number (PIN) for PS Registration

Feature Guide References

1.25.1 Portable Station (PS) Connection

PS Directory

- [001] System Speed Dialling Number
- [002] System Speed Dialling Name
- [004] Extension Name

Feature Guide References

1.25.3 PS Directory

PS Ring Group

- [620] Incoming Call Distribution Group Member

Feature Guide References

1.25.2 PS Ring Group

PS Roaming by Network ICD Group

- [620] Incoming Call Distribution Group Member
- [622] Incoming Call Distribution Group Floating Extension Number
- [624] Incoming Call Distribution Group Distribution Method

Feature Guide References

1.30.6.1 PS Roaming by Network ICD Group

PT Programming

- 2.1 PT Programming
- [516] Programming Mode Limitation

Feature Guide References

2.3.2 PT Programming

Q**Queuing Feature**

- [628] Queuing Call Capacity
- [629] Queuing Hurry-up Level
- [630] Queuing Time Table
- [631] Sequences in Queuing Time Table
- [632] Maximum Number of Agents

Feature Guide References

1.2.2.4 Queuing Feature

R**Reverse Circuit**

- [415] LCOT Reverse Circuit

Feature Guide References

1.5.4.5 Reverse Circuit

S**Software Upgrading**

- [190] Main Processing (MPR) Software Version Reference

Feature Guide References

2.3.8 Software Upgrading

Special Carrier Access Code

- [303] Special Carrier Access Code

Feature Guide References

1.5.4.9 Special Carrier Access Code

Speed Dialling—Personal/System

- [001] System Speed Dialling Number
- [002] System Speed Dialling Name
- [509] TRS/Barring Level for System Speed Dialling

Feature Guide References

1.6.1.5 Speed Dialling—Personal/System

Station Message Detail Recording (SMDR)

- [800] RS-232C Parameter—New Line Code
- [800] RS-232C Parameter—Baud Rate
- [800] RS-232C Parameter—Word Length
- [800] RS-232C Parameter—Parity Bit
- [800] RS-232C Parameter—Stop Bit Length
- [802] SMDR Page Length
- [803] SMDR Skip Perforation
- [804] SMDR Outgoing Call Printing
- [805] SMDR Incoming Call Printing

Feature Guide References

1.26.1 Station Message Detail Recording (SMDR)

T

Tenant Service

- [001] System Speed Dialling Number
- [006] Operator Assignment
- [320] ARS Mode
- [711] Music on Hold

Feature Guide References

2.2.3 Tenant Service

TIE Line Service

- [453] DID Destination
- [500] Trunk Group Number

Feature Guide References

1.30.1 TIE Line Service

Time Service

- [101] Time Service Switching Mode
- [102] Time Service Starting Time
- [514] Time Service Manual Switching

Feature Guide References

2.2.4 Time Service

Toll Restriction (TRS)/Call Barring (Barring)

- [300] TRS/Barring Override by System Speed Dialling
- [301] TRS/Barring Denied Code
- [302] TRS/Barring Exception Code
- [501] TRS/Barring Level
- [509] TRS/Barring Level for System Speed Dialling
- [602] Class of Service

Feature Guide References

1.9.1 Toll Restriction (TRS)/Call Barring (Barring)

Trunk Access

- [400] LCOT/BRI Trunk Connection
- [401] LCOT/BRI Trunk Name
- [409] LCOT/BRI Trunk Number Reference
- [500] Trunk Group Number

Feature Guide References

1.5.5.3 Trunk Access

Trunk Answer From Any Station (TAFAS)

- [700] External Pager Floating Extension Number

Feature Guide References

1.17.3 Trunk Answer From Any Station (TAFAS)

Trunk Busy Out

- [511] Manager Assignment

Feature Guide References

1.5.4.6 Trunk Busy Out

Trunk Call Limitation

- [472] Extension-to-Trunk Call Duration
- [473] Trunk-to-Trunk Call Duration
- [502] Trunk Call Duration Limitation

Feature Guide References

1.11.8 Trunk Call Limitation

V

Verification Code Entry

- [120] Verification Code
- [121] Verification Code Name
- [122] Verification Code Personal Identification Number (PIN)
- [123] Verification Code COS Number

Feature Guide References

1.9.6 Verification Code Entry

Virtual PS

- [690] PS Registration

Feature Guide References

1.25.6 Virtual PS

Voice Mail (VM) Group

- [601] Terminal Device Assignment
- [660] VM Group Floating Extension Number

Feature Guide References

1.24.1 Voice Mail (VM) Group

Voice Mail DPT (Digital) Integration

- [201] Transfer Recall Time

Feature Guide References

1.24.3 Voice Mail DPT (Digital) Integration

W

Walking COS

- [005] Extension Personal Identification Number (PIN)

Feature Guide References

1.9.5 Walking COS

Walking Extension

- [007] DSS Console Paired Telephone

Feature Guide References

1.28.3 Walking Extension

Wireless XDP Parallel Mode

- [515] Wireless XDP Parallel Mode for Paired Telephone

Feature Guide References

1.25.5 Wireless XDP Parallel Mode

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